



MACHINE  
LEARNING

R

DEEP  
LEARNING

DATA  
ANALYTICS

BIG  
DATA

# SCHOOL CATALOG

Version 4.4

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NYC Data Science Academy | [nycdatascience.com](http://nycdatascience.com)

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## ACADEMIC CALENDARS FOR 2024

### 1. DATA ANALYTICS BOOTCAMPS

<b>Winter Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
Data Analytics Online (12 weeks)	2024-01-08	2024-03-29
<b>Mid-Winter Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
Data Analytics Online (12 Weeks)	2024-02-19	2024-05-10
<b>Spring Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
Data Analytics Online (12 weeks)	2024-04-01	2024-06-21
<b>Mid-Spring Quarter 2024</b>		
Data Analytics Online (12 Weeks)	2024-05-20	2024-08-09
<b>Summer Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
Data Analytics Online (12 weeks)	2024-07-01	2024-09-20
<b>Mid-Summer Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
Data Analytics Online (12 Weeks)	2024-08-19	2024-11-08
<b>Fall Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
Data Analytics Online (12 weeks)	2024-09-30	2024-12-20
<b>Mid-Fall Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
Data Analytics Online (12 Weeks)	2024-11-18	2025-02-07

## 2. DATA SCIENCE WITH MACHINE LEARNING

<b>Winter Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
DS Bootcamp Residential (BDS036)	2024-01-08	2024-03-29
DS Bootcamp Online (Full-Time)	2024-01-08	2024-04-26
DS Bootcamp Online (Part-Time)	2024-01-08	2024-06-21
<b>Mid-Winter Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
DS Bootcamp Online (Full-Time)	2024-02-19	2024-06-07
DS Bootcamp Online (Part-Time)	2024-02-19	2024-08-02
<b>Spring Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
DS Bootcamp Residential (BDS037)	2024-04-01	2024-06-21
DS Bootcamp Online (Full-Time)	2024-04-01	2024-07-19
DS Bootcamp Online (Part-Time)	2024-04-01	2024-09-13
<b>Mid-Spring Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
DS Bootcamp Online (Full-Time)	2024-05-20	2024-09-06
DS Bootcamp Online (Part-Time)	2024-05-20	2024-11-01
<b>Summer Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
DS Bootcamp Residential (BDS038)	2024-07-01	2024-09-20
DS Bootcamp Online (Full-Time)	2024-07-01	2024-10-18
DS Bootcamp Online (Part-Time)	2024-07-01	2024-12-13
<b>Mid-Summer Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
DS Bootcamp Online (Full-Time)	2024-08-19	2024-12-06
DS Bootcamp Online (Part-Time)	2024-08-19	2025-02-07
<b>Fall Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
DS Bootcamp Residential (BDS039)	2024-09-30	2024-12-20
DS Bootcamp Online (Full-Time)	2024-09-30	2025-01-17
DS Bootcamp Online (Part-Time)	2024-09-30	2025-03-14
<b>Mid-Fall Quarter 2024</b>	<b>Start Date</b>	<b>End Date</b>
DS Bootcamp Online (Full-Time)	2024-11-18	2025-03-07
DS Bootcamp Online (Part-Time)	2024-11-18	2025-05-02

## Welcome

Dear Student,

On behalf of the faculty and staff at NYC Data Science Academy, I want to welcome you and congratulate you on your decision to expand your professional career in the data science field! In today's world, technological advancement is a constant, and innovations change not only how businesses operate but also the ways we live, learn, work, and entertain. Therefore, learning has become an exciting life-long process we must all experience to reach our full potential in pursuing professional career goals and in our quest for happiness and purpose in life.

The data science field has been evolving rapidly in the past decade. Globalization of the economy and competitions in the world-wide arena have compelled businesses across all industries to strive for operational effectiveness and efficiency. Since data science plays such a critical role in finding the optimal solution to business operational problems, every business enterprise turns to data analysts and data scientists to do data mining and gain business insights for continuous operational improvement. As a result, data science today is one of the fastest growing career fields. According to the U.S. Bureau of Labor Statistics, "Employment of operations research analysts is projected to grow 26 percent from 2018 to 2028, much faster than the average for all occupations" (<https://www.bls.gov/ooh/math/operations-research-analysts.htm>). NYC Data Science Academy was founded in 2013 to train data science professionals to meet the growing need for such operations research analysts.

At NYC Data Science Academy, you are joining fellow students who share a common interest in data science and aspire to be data scientists in the long run. You will find a safe and supportive environment that is conducive to learning. The pace of learning in our bootcamps is accelerated and calls for active engagement in and out of classes. The more effort you put into the learning process, the more you will learn and the greater success you can expect from your endeavors. Our faculty and staff are here to facilitate your success!

Again, welcome, and enjoy your journey of learning at our Academy!

Sincerely,

Shangxuan Vivian Zhang  
School Director

## **INSTITUTIONAL OVERVIEW**

### **MISSION**

NYC Data Science Academy's mission is to provide accelerated data science training programs that prepare people for employment as data science professionals and to offer continuing education courses for professional development.

### **CORE VALUES**

To fulfill its mission, NYC Data Science Academy has established the following core values to guide and drive its institutional planning, operations, and effort for continuous improvement:

- Quality
- Integrity
- Learner-centered
- Student satisfaction
- Industry community
- No discrimination
- Excellence in outcomes

### **LICENSURE, APPROVAL AND ACCREDITATION**

NYC Data Science Academy has been granted Licensure by the New York State Education Department, Office of Adult Career and Continuing Education Services, Bureau of Proprietary School Supervision (BPSS), to operate as a Private Career School, with the license number #2041, effective from 10/22/2021 to 10/22/2025.

NYC Data Science Academy is approved by the Bureau of Proprietary School Supervision to offer vocational programs and professional development courses in the data science field.



NYC Data Science Academy is accredited by the Accrediting Council for Continuing Education & Training (ACCET). ACCET is listed by the U.S. Department of Education as a nationally recognized accrediting agency. It is located at 1722 N Street, NW, Washington, D.C. 20036, Tel. (202)955-1113, [www.accet.org](http://www.accet.org).

## **HISTORY AND OWNERSHIP**

Founded in 2013, NYC Data Science Academy is a proprietary school designed to provide advanced professional training programs and courses in the field of data science. The worldwide community of data scientists have developed tools that allow companies, agencies, and individuals to access massive data sets that were previously inaccessible. The Academy grew out of the combined expertise and commitment of a group of data science and big data professionals to fill a need in the technology industry for data scientists. NYC Data Science Academy prepares its students to use data science tools and apply them to real world situations. Since its founding in late 2013, NYC Data Science Academy has helped several thousand people become data science professionals and develop their careers in a fast-growing career field.

NYC Data Science Academy, Inc. is owned by SupStat, Inc., a Delaware corporation with principal offices located at 500 Eighth Ave., Ste. 905, New York, NY 10018. Phone: 917-383-2099.

## **EXECUTIVE OFFICERS**

Newton Cheng, Chief Executive Officer  
Shangxuan Vivian Zhang, School Director

## **FACILITIES AND EQUIPMENT**

NYC Data Science Academy is conveniently located in a modern office building in midtown Manhattan and is easily accessible by public transportation. NYC Data Science Academy facilities meet ADA accessibility standards. The school has one main classroom with desks and chairs, a small private meeting room with furniture, a large lounge area with couch, sofa, tables, chairs, refrigerator, built-in bookcases, coffee and water service equipment, and a storage room. The total space the school occupies is over 2,000 square feet.

NYC Data Science Academy's equipment includes but are not limited to desks, chairs, tables, projectors, projector screens, video cameras, audio equipment, whiteboards, HDMI cables, DVI, HDMI adapters, video and audio editing equipment, and equipment for amenities in the student lounge and staff office areas.

Students are required to bring their personal laptops to class which are running Windows, macOS, Linux, or any other serviceable operating system. Students are trained in downloading all data science software, all of which is open source, free, and readily available.

High-speed internet access is provided in all areas of the facility. NYC Data Science Academy provides a network drive for students to create clusters for big data. The classroom has computer projection capability. Students can share their projects and assignments through Join Me.

## **HOURS OF OPERATION**

Classrooms are open during the following hours except holidays and school breaks:

Monday – Thursday: 9:30 a.m. – 9:30 p.m.

Friday: 9:30 a.m. - 5:30 p.m.

Saturday & Sunday: 10:00 a.m. – 5:30 p.m.

Administrative Office is open during the following hours except holidays and school breaks:

Monday – Friday: 9:00 a.m. – 6:00 p.m.

## **CONSUMER INFORMATION**

### **About the Catalog**

This Catalog is published in order to inform students and others of NYC Data Science Academy's academic programs, courses, policies, calendar, tuition, fees, administration, and faculty. This Catalog is published for informational purposes only and is not intended as a contractual agreement between NYC Data Science Academy and any individuals. The information provided is current and accurate as of the date of publication.

NYC Data Science Academy reserves the right to make changes within the terms of this Catalog, which may affect any of the information published, and to make such changes, if necessary, without prior notice to individual students. As such changes may occur, these will be published in a Catalog Addendum, which is intended as, and is to be regarded as an integral part of this Catalog.

NYC Data Science Academy expects its students to read and understand the information published in this Catalog and in any Catalog Addendum identified as belonging to this Catalog. Failure to read and understand this Catalog will not excuse any student from the application of any requirement or policy published herein.

The student should be aware that some information in the catalog may change. It is recommended that students considering enrollment check with the School Director to determine if there is any change from the information provided in the catalog. In addition, a catalog will contain information on the school's teaching personnel and courses/curricula offered. Please be advised that the State Education Department separately licenses all teaching

personnel and independently approves all courses and curricula offered. Therefore, it is possible that courses/curricula listed in the school's catalog may not be approved at the time that a student enrolls in the school or the teaching personnel listed in the catalog may have changed. It is again recommended that you check with the Director to determine if there are any changes in the courses/curricula offered or the teaching personnel listed in the catalog.

### **Nondiscrimination**

NYC Data Science Academy affirms a policy of equal employment opportunity, equal educational opportunity, nondiscrimination in the provision of educational services to the public, and administering all educational programs and related supporting services and benefits in a manner that does not discriminate because of a student's race, color, creed or religion, sex, gender or sexual orientation, national origin, age, physical or mental disadvantage, or other factors, which cannot lawfully be the basis for an employment decision.

### **College Credit Disclaimer**

Licensed private career schools in the State of New York offer curricula measured in clock hours or competency gained, not in credit hours. Certificates of completion—that is, school diplomas—are issued to students who meet clock hour or competency requirements. The granting or recognition of any college credit to students who participated in and/or completed a program at a licensed private career school is solely at the discretion of the institution of higher education that the student may opt to subsequently attend.

NYC Data Science Academy does not measure its program or courses in credit hours and therefore does not promise or guarantee that any other institution of higher learning would recognize or grant any credit for the training hours a student receives from the Academy. However, should a graduate of a bootcamp program need information on any of the Bootcamp courses to support their effort to request for transfer credit evaluation, the graduate may request in writing to the Student Services Officer for relevant information such as academic transcript, catalog, course description or course syllabus.

### **Credit for Prior Learning or Experience**

Applicants with prior learning in the discipline of Data Science may request to have their transcript evaluated for possible transfer of credit. In order for any course credit to be considered for transfer of credit, the course must cover similar topics, have similar number of contact hours, and have similar project outcomes as the corresponding component of the applicable bootcamp curriculum. Only courses with a B or higher grade will be considered for possible award of transfer credit, and the maximum number of clock hours to be awarded with transfer credit is limited to sixty (60) clock hours for any bootcamp. Additionally, the course(s) to be considered must be taken within the past two years of the class start date.

The request for evaluation must be submitted at the time of enrollment but no later than one week prior to the first day of class in the program of enrollment. A prospective student may obtain a Transfer Credit Request Form from his/her Admissions Officer. In completing the request,

the prospective student is required to provide support documents to demonstrate the required elements for evaluation, e.g., academic transcript, school catalog, course syllabus, and completed project with supporting details. The Academy's faculty will evaluate the request along with supporting documents within a week of submission and make the decision on whether any transfer credit could and will be granted. The applicant will be notified in writing of the decision within 10 business days of the submission of the request.

When granted the 60 clock hours, total tuition of the bootcamp will be adjusted according to the total tuition of the bootcamp and the prorated amount for the 60 hours.

If the student is not satisfied with the evaluation decision of the faculty, the student may discuss the matter with the Bootcamp Manager. If the student is not happy with the Bootcamp Manager's decision, the student may appeal in writing to the School Director whose decision is final.

### **Class Size**

For the residential or in-person Data Analytics Bootcamp and Data Science with Machine Learning bootcamp programs, the class section capacity is approved by BPSS to be 25 students. For the online Data Analytics Bootcamp and Data Science with Machine Learning programs, the class section capacity is approved to be 30 students. Multiple instructors are involved in teaching various subject topics in the bootcamp programs, and teaching assistants are also available to assist students in their learning process.

For professional development courses, the class size is typically 8-25 students taught by one instructor. The maximum student to teacher ratio for one course is approved by BPSS to be 30:1. When the class size is greater than 25, a Teaching Assistant will be assigned to help the instructor in the classroom.

### **Textbooks and Supplies**

Textbooks are not required. All learning materials are provided to students in the form of slides and other digital documents. The learning materials have all been developed in-house by a talented pool of full-time instructors who are also data science and computer science professionals.

Students are required to bring their personal laptops to class which are running Windows, macOS, Linux, or any other serviceable operating system. Students are trained in downloading all data science software, all of which is open source, free, and readily available.

Students receive an electronic copy of the course materials and all related code at the beginning of or before each class.

The curricular materials are copyrighted intellectual properties of NYC Data Science Academy. They are meant for students' personal use only. Any duplication or sharing of such curricular

materials is illegal, and the Academy may take legal actions against such illegal use of its copyrighted materials.

**Accessibility**

NYC Data Science Academy offers accessibility for students with need for American with Disabilities Act (ADA) accommodations. In order for the Academy to provide such accommodation, any prospective student or current student who needs ADA accommodations must disclose such information to the Student Service Officer during the admissions process or while in school.

## **ADMISSIONS REQUIREMENTS AND PROCESS**

### **VOCATIONAL DATA ANALYTICS AND DATA SCIENCE PROGRAMS**

To enroll in the NYC Data Science Academy’s programs, applicants must:

- Possess a minimum of a bachelor’s degree. Degrees in Math, Science or Technology are highly desirable. However, candidates with strong domain knowledge in an area that employs data scientists, and some background in either coding or statistics, will also be considered.
- Complete an online application.
- Participate in an interview with an Admissions Officer.
- Complete and submit the Academy’s Technical Assessment.
- Have a laptop running Windows, macOS, or Linux to bring to class. The laptop computer must meet the minimum specifications in the table below:

<b>Minimum</b>	<b>Recommended</b>
2.3GHz dual-core Intel Core i5	2.6GHz 6-core Intel Core i7
8GB Memory	16GB Memory
128GB Storage	256GB SSD Storage

Applicants who do not have a bachelor’s degree but have at least a high school diploma may qualify for admittance by successfully completing all the three courses for Bootcamp Preparation.

Applications to the NYC Data Science Academy Bootcamp programs may be obtained online at [www.nycdatascience.com\data-science-bootcamp](http://www.nycdatascience.com/data-science-bootcamp) .

### **PROFESSIONAL DEVELOPMENT COURSES**

NYC Data Science Academy also offers stand-alone courses that are for continuing education or upskilling in nature. To enroll in the NYC Data Science Academy’s professional development courses, registration is available online at [nycdatascience.com/courses/](http://nycdatascience.com/courses/). Students may elect to sign up for any course listed on the website. Students are admitted on a first come/first served basis. Although there are no prerequisite course requirements, certain recommended prior knowledge and skills are listed in each professional development course description. These courses are designed for self-enrichment and upskilling. They are not meant to prepare any student for any new employment opportunity in the data science field.

For all professional development courses, the admissions deadline is 24 hours before the first meeting of the course. For professional development courses, the admission process is on a rolling basis. NYC Data Science Academy reserves the right to make exceptions and admit students to a given course after the admission deadline has passed under special circumstances.

### **LATE START**

Students enrolled in vocational programs and avocational professional development courses are expected to start on the first day of class for the enrolled program or course. When there is a waitlist situation or any extenuating circumstance, a student may start on the first scheduled day of class in the second week, but no later than that. Under no circumstances could any student be allowed to start beyond the maximum class size as approved by New York State Education Department's Bureau of Proprietary School Supervision.

## **OTHER ADMISSIONS RELATED INFORMATION**

NYC Data Science Academy does not admit ability-to-benefit students.

NYC Data Science Academy is eligible to issue student visas. Therefore, enrollment can be used as part of a student visa application.

NYC Data Science Academy has no transfer or articulation agreements with any other college or university that provides for the transfer of training hours earned in the Data Analytics or Data Science programs.

Whether or not the training you received at NYC Data Science Academy would be recognized as equivalent academic credits is at the complete discretion of the institution to which you may seek enrollment in the future. Recognition of any academic credit value associated with the certificate of completion you earn in the training program is also at the complete discretion of the institution to which you may seek to enroll in the future.

For the very reasons above, NYC Data Science Academy does not imply, promise or guarantee that your training hours in its Data Analytics or Data Science programs or its professional development courses would be recognized for any academic credit value at any other educational institution.

## ACADEMIC PROGRAM AND COURSE INFORMATION

### DATA ANALYTICS BOOTCAMP

Program Name: Data Analytics Bootcamp  
Program Length: 230 Clock Hours; 7 Weeks  
Credential Awarded: Certificate of Completion  
Mode of Delivery: Residential

#### Program Objective

Data science is a fast-evolving field and offers many employment opportunities for people with a strong operational analysis background. In recent years, technological development in data collection and storage and innovations in data science tools and methodologies have made it even more important to have properly-trained data analysts and operations analysts to perform data analyses to gain business insights. NYC Data Science Academy designed the seven-week Data Analytics Bootcamp to provide accelerated training to fulfill the need of data science professionals in the employment market. The objective of the Data Analytics Bootcamp is to provide training in major data analytics tools and methods and their applications in the business cases and prepare students to seek employment across all industries as data analysis professionals.

#### Program Description

The Data Analytics Bootcamp is an advanced certificate program that is designed primarily for individuals who have earned a baccalaureate or higher degree and want to further their career in the field of data science. It is a very accelerated training program in which students learn the major tools and methods for performing data analyses and apply them to various projects typically found in real-life business situations. Students learn to employ R and Python for data analytics projects and for presenting research results effectively. Students will complete two course-based individual projects and one capstone project in groups.

#### Data Science Career Opportunities

Data science is a high demand career field based on statistical information published by the U.S. Bureau of Labor. According to the Bureau of Labor statistics, "Employment of operations research analysts is projected to grow 26 percent from 2018 to 2028, much faster than the average for all occupations. As technology advances and companies seek efficiency and cost savings, demand for operations research analysis should continue to grow."

(<https://www.bls.gov/ooh/math/operations-research-analysts.htm>) Graduates from the Data Analytics Bootcamp are prepared to seek employment opportunities across all business industries as Data Analysts, Operations Analyst, and other related titles.

#### Program Exit Competencies

Students who have successfully completed the Data Analytics Bootcamp are able to:

- Demonstrate proficiency in using GitHub for version control and collaboration with other coders.



- Extract relevant data in a desirable format from a SQL database.
- Operate a Linux system for data science projects.
- Manipulate data proficiently to facilitate advanced data analyses with R.
- Gain business insights through data analytics in a data science project.
- Present effectively the end results and deliverables of a data analytics project to stakeholders, including appropriate visualizations.
- Utilize object-oriented programming and functional programming for better readability and efficiency.
- Manipulate data proficiently with NumPy, SciPy, and pandas.
- Interpret statistical inference implied by a statistical model.
- Perform model selection through statistical analysis and evaluations.
- Explain the roles of data analysts and data scientists in business organizations.
- Conceptualize a data analytics project to determine what objective(s) to achieve, what tools and methods to select, what deliverables to provide, and how the projects should be carried out.
- Complete a data analytics project individually or as a member of a team.

### Plan of Study

Course No.	Course Title	Clock Hours
DABC502	Data Science Toolkit	30
DABC506	Data Analytics with Python	60
DABC511	Data Analytics with R	60
DABC516	Business Cases in Data Science	40
DSBC519	Data Analytics Capstone Project	40

### Projects

Students will complete the following three graded projects:

- Data Analytics Project with Python (Individual)
- Data Analytics Project with R (Individual)
- Data Analytics Capstone Project (Group)

### DATA ANALYTICS BOOTCAMP – ONLINE

Program Name: Data Analytics Bootcamp – Online  
 Program Length: 230 Clock Hours; 12 Weeks  
 Credential Awarded: Certificate of Completion  
 Mode of Delivery: Interactive Distance Learning (Online)

### Program Objective

Data science is a fast-evolving field and offers many employment opportunities for people with a strong operational analysis background. In recent years, technological development in data

collection and storage and innovations in data science tools and methodologies have made it even more important to have properly-trained data analysts and operations analysts to perform data analyses to gain business insights. NYC Data Science Academy designed the 12-week Data Analytics Bootcamp - Online to provide accelerated training to fulfill the need of data science professionals in the employment market. The objective of the Data Analytics Bootcamp is to provide training in major data analytics tools and methods and their applications in the business cases and prepare students to seek employment across all industries as data analysis professionals.

### **Program Description**

The Data Analytics Bootcamp is an advanced certificate program that is designed primarily for individuals who have earned a baccalaureate or higher degree and want to further their career in the field of data science. It is a very accelerated training program in which students learn the major tools and methods for performing data analyses and apply them to various projects typically found in real-life business situations. Students learn to employ R and Python for data analytics projects and for presenting research results effectively. Students will complete two course-based individual projects and one capstone project in groups.

### **Data Science Career Opportunities**

Data science is a high demand career field based on statistical information published by the U.S. Bureau of Labor. According to the Bureau of Labor statistics, “Employment of operations research analysts is projected to grow 26 percent from 2018 to 2028, much faster than the average for all occupations. As technology advances and companies seek efficiency and cost savings, demand for operations research analysis should continue to grow.”

(<https://www.bls.gov/ooh/math/operations-research-analysts.htm>) Graduates from the Data Analytics Bootcamp are prepared to seek employment opportunities across all business industries as Data Analysts, Operations Analyst, and other related titles.

### **Program Exit Competencies**

Students who have successfully completed the Data Analytics Bootcamp are able to:

- Demonstrate proficiency in using GitHub for version control and collaboration with other coders.
- Extract relevant data in a desirable format from a SQL database.
- Operate a Linux system for data science projects.
- Manipulate data proficiently to facilitate advanced data analyses with R.
- Gain business insights through data analytics in a data science project.
- Present effectively the end results and deliverables of a data analytics project to stakeholders, including appropriate visualizations.
- Utilize object-oriented programming and functional programming for better readability and efficiency.
- Manipulate data proficiently with NumPy, SciPy, and pandas.
- Interpret statistical inference implied by a statistical model.
- Perform model selection through statistical analysis and evaluations.
- Explain the roles of data analysts and data scientists in business organizations.

- Conceptualize a data analytics project to determine what objective(s) to achieve, what tools and methods to select, what deliverables to provide, and how the projects should be carried out.
- Complete a data analytics project individually or as a member of a team.

### Plan of Study

Course No.	Course Title	Clock Hours
DABC502	Data Science Toolkit	30
DABC506	Data Analytics with Python	60
DABC511	Data Analytics with R	60
DABC516	Business Cases in Data Science	40
DSBC519	Data Analytics Capstone Project	40

### Projects

Students will complete the following three graded projects:

- Data Analytics Project with Python (Individual)
- Data Analytics Project with R (Individual)
- Data Analytics Capstone Project (Group)

### Transferability of Bootcamp Modules into Data Science with Machine Learning

If a student, who started in the Data Analytics Bootcamp (residential) or Data Analytics Bootcamp – Online, decides that they want to pursue study in the full-length Data Science with Machine Learning (residential) or Data Science with Machine Learning - Online bootcamp before they complete the Data Analytics Bootcamp or after they completed the bootcamp and became employed in the data science field, the first four modules as listed in the Plan of Study above are fully transferable into the Data Science with Machine Learning – Onlibootcamp. The tuition amount paid for the Data Analytics Bootcamp will be credited toward the tuition amount for Data Science with Machine Learning if the enrollment takes place within 12 months of completing the Data Analytics Bootcamp.

### DATA SCIENCE WITH MACHINE LEARNING

Program Name: Data Science with Machine Learning  
 Program Length: 400 Clock Hours; 12 Weeks  
 Credential Awarded: Certificate of Completion  
 Mode of Delivery: Residential

### Program Objective

Data science is a fast-evolving field and offers many employment opportunities for people with a strong operational analysis background. In recent years, technological development in data collection and storage and innovations in data science tools and methodologies have made it

even more important to have properly-trained data analysts and data scientists to perform data analyses to gain business insights. NYC Data Science Academy designed the 12-week Data Science with Machine Learning bootcamp to provide accelerated training to fulfill the need of data science professionals in the employment market. The objective of the Data Science with Machine Learning bootcamp is to provide training in major data science tools and methods and how they are used in real business situations, including machine learning and advanced data science topics, which prepares students to seek employment across all industries as data science professionals.

### **Program Description**

The Data Science with Machine Learning bootcamp is an advanced certificate program that is designed primarily for individuals who have earned a baccalaureate or higher degree and want to further their career in the field of data science. It is a very accelerated training program in which students learn the major tools and methods for performing data analyses and apply them to various projects typically found in real-life business situations. At the foundation level of the program, students learn to employ R and Python for two individual data analytics projects and for presenting research results effectively. Beyond the foundational level, students study machine learning with Python and complete a machine learning project and a capstone project in groups. The program also exposes students to concepts and practices in advanced topics such as deep learning and big data.

### **Data Science Career Opportunities**

Data science is a high demand career field based on statistical information published by the U.S. Bureau of Labor. According to the Bureau of Labor statistics, “Employment of operations research analysts is projected to grow 26 percent from 2018 to 2028, much faster than the average for all occupations. As technology advances and companies seek efficiency and cost savings, demand for operations research analysis should continue to grow.”

(<https://www.bls.gov/ooh/math/operations-research-analysts.htm>) Graduates from the Data Science with Machine Learning are prepared for employment opportunities across all business industries as Data Analysts, Data Scientists, Machine Learning Engineers, and other related titles.

### **Program Exit Competencies**

Students who have successfully completed the Data Science with Machine Learning bootcamp are able to:

- Demonstrate proficiency in using GitHub for version control and collaboration with other coders.
- Extract relevant data in a desirable format from a SQL database.
- Operate a Linux system for data science projects.
- Manipulate data proficiently to facilitate advanced data analyses with R.
- Gain business insights through data analytics in a data science project.
- Present effectively the end results and deliverables of a data analytics project to stakeholders, including appropriate visualizations.
- Utilize object-oriented programming and functional programming for better readability

and efficiency.

- Manipulate data proficiently with NumPy, SciPy, and pandas.
- Interpret statistical inference implied by a statistical model.
- Perform model selection through statistical analysis and evaluations.
- Explain the roles of data analysts and data scientists in business organizations.
- Conceptualize a data analytics project to determine what objective(s) to achieve, what tools and methods to select, what deliverables to provide, and how the projects should be carried out.
- Characterize the statistical properties of a cluster or factor generated through unsupervised learning.
- Explain the mathematical structure behind a given machine learning model.
- Perform feature engineering to identify alternatives for final feature selection.
- Select machine learning models through comparative analysis and evaluations.
- Identify commonalities among the variables or the observations through unsupervised learning algorithms.
- Explain the obstacles of analyzing increasingly large datasets and how different technologies and paradigms help overcome these obstacles.
- Build artificial neural network models for regression or classification using Keras and describe several popular deep learning architectures, including common industry tasks in which each architecture is used.
- Complete a data science project by employing appropriate tools and methods to gain business insights and present such insights effectively.

### Plan of Study

Course No.	Course Title	Clock Hours
DABC502	Data Science Toolkit	30
DABC506	Data Analytics with Python	60
DABC511	Data Analytics with R	60
DABC516	Business Cases in Data Science	40
DSBC521	Machine Learning I	60
DSBC522	Machine Learning II	60
DSBC525	Data Science: Advanced Topics	40
DSBC530	Data Science Capstone Project	50

### Projects

Students in the Data Science with Machine Learning bootcamp are required to complete four graded projects:

- Data Analytics Project with Python (Individual)
- Data Analytics Project with R (Individual)
- Machine Learning Project with Python (Group)
- Data Science Capstone Project (Group)

## **DATA SCIENCE WITH MACHINE LEARNING – ONLINE**

Program Name: Data Science with Machine Learning - Online  
Program Length: 400 Clock Hours; 16 Weeks (Full-Time) and 24 Weeks (Part-Time)  
Credential Awarded: Certificate of Completion  
Mode of Delivery: Interactive Distance Learning (Online)

### **Program Objective**

Data science is a fast-evolving field and offers many employment opportunities for people with a strong operational analysis background. In recent years, technological development in data collection and storage and innovations in data science tools and methodologies have made it even more important to have properly-trained data analysts and data scientists to perform data analyses to gain business insights. NYC Data Science Academy designed the 12-week Data Science with Machine Learning bootcamp to provide accelerated training to fulfill the need of data science professionals in the employment market. The objective of the Data Science with Machine Learning bootcamp is to provide training in major data science tools and methods and how they are used in real business situations, including machine learning and advanced data science topics, which prepares students to seek employment across all industries as data science professionals.

### **Program Description**

The Data Science with Machine Learning bootcamp is an advanced certificate program that is designed primarily for individuals who have earned a baccalaureate or higher degree and want to further their career in the field of data science. It is a very accelerated training program in which students learn the major tools and methods for performing data analyses and apply them to various projects typically found in real-life business situations. At the foundation level of the program, students learn to employ R and Python for two individual data analytics projects and for presenting research results effectively. Beyond the foundational level, students study machine learning with Python and complete a machine learning project and a capstone project in groups. The program also exposes students to concepts and practices in advanced topics such as deep learning and big data.

### **Data Science Career Opportunities**

Data science is a high demand career field based on statistical information published by the U.S. Bureau of Labor. According to the Bureau of Labor statistics, “Employment of operations research analysts is projected to grow 26 percent from 2018 to 2028, much faster than the average for all occupations. As technology advances and companies seek efficiency and cost savings, demand for operations research analysis should continue to grow.”

(<https://www.bls.gov/ooh/math/operations-research-analysts.htm>) Graduates from the Data Science with Machine Learning are prepared for employment opportunities across all business industries as Data Analysts, Data Scientists, Machine Learning Engineers, and other related titles.

### **Program Exit Competencies**

Students who have successfully completed the Data Science with Machine Learning bootcamp are

able to:

- Demonstrate proficiency in using GitHub for version control and collaboration with other coders.
- Extract relevant data in a desirable format from a SQL database.
- Operate a Linux system for data science projects.
- Manipulate data proficiently to facilitate advanced data analyses with R.
- Gain business insights through data analytics in a data science project.
- Present effectively the end results and deliverables of a data analytics project to stakeholders, including appropriate visualizations.
- Utilize object-oriented programming and functional programming for better readability and efficiency.
- Manipulate data proficiently with NumPy, SciPy, and pandas.
- Interpret statistical inference implied by a statistical model.
- Perform model selection through statistical analysis and evaluations.
- Explain the roles of data analysts and data scientists in business organizations.
- Conceptualize a data analytics project to determine what objective(s) to achieve, what tools and methods to select, what deliverables to provide, and how the projects should be carried out.
- Characterize the statistical properties of a cluster or factor generated through unsupervised learning.
- Explain the mathematical structure behind a given machine learning model.
- Perform feature engineering to identify alternatives for final feature selection.
- Select machine learning models through comparative analysis and evaluations.
- Identify commonalities among the variables or the observations through unsupervised learning algorithms.
- Explain the obstacles of analyzing increasingly large datasets and how different technologies and paradigms help overcome these obstacles.
- Build artificial neural network models for regression or classification using Keras and describe several popular deep learning architectures, including common industry tasks in which each architecture is used
- Complete a data science project by employing appropriate tools and methods to gain business insights and present such insights effectively.

### Plan of Study

Course No.	Course Title	Clock Hours
DABC502	Data Science Toolkit	30
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DABC511	Data Analytics with R	60
DABC516	Business Cases in Data Science	40
DSBC521	Machine Learning I	60
DSBC522	Machine Learning II	60
DSBC525	Data Science: Advanced Topics	40
DSBC530	Data Science Capstone Project	50

## Projects

Students in the Data Science with Machine Learning bootcamp are required to complete four graded projects:

- Data Analytics Project with Python (Individual)
- Data Analytics Project with R (Individual)
- Machine Learning Project with Python (Group)
- Data Science Capstone Project (Group)

## VOCATIONAL PROGRAM COURSE DESCRIPTIONS

### **DABC502 Data Science Toolkit**

Clock Hours: 30 (Lecture: 17; Lab: 13)

Prerequisite: None

The Unix environment is widely used in the data science field. Being familiar with the common tools is important in order to carry out further data analysis. This course enables students to communicate with the computers via the command line environment. It also introduces the SQL database, a traditional database that has been widely used in the enterprise setting, as well as GitHub, a file sharing platform generally used by programmers for version control.

### **DABC506 Data Analytics with Python**

Clock Hours: 60 (Lecture: 24; Lab: 36)

Prerequisite: None

This course introduces students to data analysis with the Python programming language. Students learn to work with different data structures in Python and the most popular data analytics and visualization packages such as NumPy, SciPy, pandas, matplotlib, and seaborn. Ultimately, students will use effective Python code and packages to solve problems; extract, transform, load, and analyze data to gain insights; and communicate the analyses, aided by appropriate visualizations. Students are required to complete a project incorporating these practices, culminating in a presentation of derived insights.

### **DABC511 Data Analytics with R**

Clock Hours: 60 (Lecture: 27; Lab: 33)

Prerequisite: None

This course is designed to provide a comprehensive introduction to the R programming language for data analysis. Students will learn to load, save, and otherwise wrangle data with effective use of functions in R and relevant libraries, including those within the tidyverse collection. Students will practice deriving insights from data using common statistical techniques, including hypothesis testing and basic statistical modeling; effective visualization; and other frequently used techniques within data analysis. Further, students will learn to successfully communicate their insights,



including creating reports with tools like knitr. Students are required to complete a project demonstrating the ability to analyze data in R.

### **DABC516 Business Cases in Data Science**

Clock Hours: 40 (Lecture: 15; Lab: 25)

Prerequisite: None

This course was designed to help students place data analytics and data science work in the real-world context of business operations across industries. Students will be presented various business cases in which datasets were explored to gain insights to guide and/or enhance business operations. They will also be required to take given business cases and conceptualize viable project approaches with defined objectives, selected tools and methods, and expected deliverables.

### **DABC519 Data Analytics Capstone Project**

Clock Hours: 40 (Lecture: 0; Lab: 40)

Prerequisite: DABC502, DABC506, DABC511, and DABC516

The capstone project is designed for students to employ the data analytics concepts, tools, and methods they have learned in the bootcamp to solve a business operational problem with real data sets from a real business entity. Students are presented data sets and potential problems to solve. Students are then required to form project teams, develop a project proposal for instructor review and approval, and execute the project. When the project is completed, each project team is required to present the project findings and share the business insights obtained from the research.

### **DSBC521 Machine Learning I**

Clock Hours: 60 (Lecture: 21; Lab: 39)

Prerequisite: DABC502, DABC506, DABC511, and DABC516

This course introduces students to Supervised Machine Learning from both a theoretical and practical perspective. Students will learn the theoretical foundations and mathematical structure behind several important, classical models; design a reproducible machine learning pipeline, including selection of an optimal model within a given context; and demonstrate the soundness and effectiveness of the final model, with a particular focus on the value of the model for extracting insights from data. Throughout the course, students will see both linear models for regression and classification, Bayesian classifiers, and time series.

### **DSBC522 Machine Learning II**

Clock Hours: 60 (Lecture: 21; Lab: 39)

Prerequisite: DSBC521

This course continues from Machine Learning I to expand the students' arsenal of machine learning algorithms along with their underlying theoretical foundations and implementations in Python. Going further into Supervised Machine Learning, students will learn tree-based models, including Bagging Trees and Random Forest; Gradient Boosting; and Support Vector Machines. Moving into Unsupervised Machine Learning, students will learn techniques of Clustering, including KMeans and Hierarchical approaches; and Matrix Factorization, including Principal Component Analysis and Latent Dirichlet Allocation. Throughout the course, students will adhere to best practices in choosing, tuning, and critiquing their models. Finally, students will be required to complete one machine learning project, in which they will demonstrate their machine learning acumen to distill deeper insights into data.

### **DSBC525 Data Science: Advanced Topics**

Clock Hours: 40 (Lecture: 18; Lab: 22)

Prerequisite: DSBC521, DSBC522

This course introduces students to more advanced data science practices, including Scalability and Deep Learning. On the scalability side, students will gain an overview of contemporary topics such as when to move from the desktop to a database, big data technologies and cloud computing. On the deep learning side, students will learn the basic mathematical construct of deep learning models, understand where deep learning has and has not found success, as well as gain an overview of several important model architectures. Along the way, students will be given examples of where the material they have learned throughout the curriculum compare and manifest in industry.

### **DSBC530 Data Science Capstone Project**

Clock Hours: 50 (Lecture: 0; Lab: 50)

Prerequisite: All Preceding DSBC Modules

The capstone project is designed for students to employ the major data science concepts, tools, and methods they have learned in the program to solve a business operational problem with real data sets from a real business entity. Students are presented data sets and potential problems to solve. Students are then required to form project teams, develop a project proposal for instructor review and approval, and execute the project. When the project is completed, each project team is required to present the project findings and share the business insights obtained from the research.

## **PROFESSIONAL DEVELOPMENT COURSES**

NYC Data Science Academy recognizes that some people may want to take certain part-time courses in the data science field for self-enrichment, upskilling, or continuing education. To meet such a need, the Academy has designed several such courses and gained approval from BPSS to offer them as professional development courses. Such courses are avocational in nature

and are not designed to prepare students for seeking new employment as data science professionals. Even though the professional development courses may contain important topics, tools and methods that are widely used in the data science field, NYC Data Science Academy does not believe that taking one or several courses alone would prepare an individual student for a career in the data science field. Therefore, NYC Data Science Academy does not imply, promise or guarantee that students who have completed one or several of the professional development courses would be employable as a data science professional. For that very reason, NYC Data Science Academy does not provide employment assistance service to any student taking professional development courses.

Currently, NYC Data Science Academy is approved by BPSS to offer the professional development courses listed in the table below. However, whether a professional development course is offered at any given time depends on actual student interest or demand. Enrollment in such professional development courses is on a first-come, first-served basis, and NYC Data Science Academy reserves the right to cancel any course when enrollment does not meet the minimum requirement to form a class that would provide students with a meaningful educational experience. When such course cancellation occurs, the student enrolled in the course will receive a full refund for the tuition paid for it.

A full schedule of these courses can be found on the NYCDSA website at: [www.nycdatascience.com/courses](http://www.nycdatascience.com/courses)

<b>Course Title</b>	<b>Type of Course</b>	<b>Course Length</b>	<b>Part Time</b>
Introduction to Python	Professional Development	5 Weeks / 20 Hours	✓
Introduction to R	Professional Development	2 Days / 14 hours	✓
Data Analytics with Python	Professional Development	5 Weeks / 20 Hours	✓
Data Analytics with R	Professional Development	5 Weeks / 35 Hours	✓
Data Science with Python: Machine Learning	Professional Development	5 Weeks / 20 Hours	✓
Data Science with R: Machine Learning	Professional Development	5 Weeks / 35 Hours	✓
Big Data with Amazon Cloud, Hadoop/Spark and Docker	Professional Development	6 Weeks / 30 Hours	✓

Deep Learning	Professional Development	5 Weeks / 30 Hours	✓
Designing and Implementing Production Machine Learning Systems (MLOps)	Professional Development	5 Weeks / 20 Hours	✓
Natural Language Processing for Production (NLP)	Professional Development	5 Weeks / 20 Hours	✓

**PROFESSIONAL DEVELOPMENT COURSE DESCRIPTIONS**

**Introduction to R**

Clock Hours: 14

Recommended Prior Knowledge and Skills: *Comfort with Windows, Mac or Linux environment and ability to install third party software*

This course is a 2-day intensive workshop on basic R programming. Students will learn how to load, save, and transform data as well as write functions, generate graphs, and run basic statistical models. Students will acquire not only the theoretical framework that helps them understand the process of data analysis, but also practical skills that allow them to utilize the tools in appropriate ways.

**Introduction to Python**

Clock Hours: 20

Recommended Prior Knowledge and Skills: *Comfort with Windows, Mac or Linux environment and ability to install third party software*

This is a class for people with no programming background who wish to learn basic Python programming. The course is designed for those who need to do “data wrangling” – manipulating downloaded files to make them amenable to analysis. The course concentrates on language basics such as list and string manipulation, control structures, and simple I/O, and introduces modules for downloading data from the web.

**Data Analytics with Python**

Clock Hours: 20

Recommended Prior Knowledge and Skills: *Some fundamental knowledge of programming*

Designed for beginners, this class is an introduction to data analysis with the Python programming language. It introduces how to work with different data structures in Python and covers the most popular data analytics and visualization modules, including *NumPy, SciPy, pandas, matplotlib, and seaborn*. We use iPython notebook to demonstrate the results of codes and change codes interactively.

### **Data Analytics with R**

Clock Hours: 35

Recommended Prior Knowledge and Skills: *Comfort with Windows, Mac or Linux environment and ability to install third party software*

This course is designed to provide a comprehensive introduction to R for data analytics. Students will learn the basics to initialize an R project, the packages for data analytics, and the tools to present analytical results by R. The basic task includes loading data and transforming data with proper custom or third-party functions provided by popular packages such as tidyverse. More advanced techniques for analysis consist of basic statistical methods such as t test, chi square test, and ANOVA, as well as visualizations with ggplot2. This course also covers practical tools to present analytical results, including knitr, which is a package for creating dynamic reports; and Shiny, which is a popular package that wraps JavaScript and HTML to allow the implementation of an interactive app with R.

### **Data Science with R: Machine Learning**

Clock Hours: 35

Recommended Prior Knowledge and Skills: *Knowledge of R. Able to munge, analyze, and visualize data in R*

This course will introduce students to data mining, utilizing performance measures, performing dimension reduction, k-nearest neighbors, and Naïve Bayes models, tree models, and SVMs as well as the Association Rule for analysis. Students will explore a variety of data sets including dynamic, geographic data producing a variety of projections.

### **Data Science with Python: Machine Learning**

Clock Hours: 20

Recommended Prior Knowledge and Skills: *Knowledge of Python. Able to munge, analyze, and visualize data in Python*

This course begins with simple linear regression and advances to support vector machines and clustering algorithms and ends with a project in which students access and analyze real data, utilizing the tools and skill sets taught throughout the course.

### **Big Data with Amazon Cloud, Hadoop/Spark and Docker**

Clock Hours: 30

Recommended Prior Knowledge and Skills: *Familiarity with Linux file systems, Linux command line interface, and basic Linux commands. Knowledge of Python*

This class is an introduction to high performance computing and map-reduce platforms. Students will learn how to design and execute parallel algorithms with Python and R. They will also learn the concept of map-reduce and practices with Hadoop and Spark on a distributed system. After successful completion of this course, individuals will be able to design parallel

code to solve a problem, be comfortable with map-reduce schema, and work on the Hadoop ecosystem to solve daily tasks.

### **Deep Learning**

Clock Hours: 30

Recommended Prior Knowledge and Skills: *Advanced knowledge of Python, Linear Algebra, Multivariate Calculus*

This course is an introduction to artificial neural networks that brings high-level theory to life. It features interactive labs with TensorFlow -- the most popular open-source deep-learning library. The course covers knowledge across the major contemporary families: convolutional nets for machine vision; long short-term memory recurrent nets for natural language processing and time series analysis; generative adversarial networks for producing realistic images; and reinforcement learning for playing video games. Students are expected to obtain an intuitive understanding of deep learning foundations. In addition, all the abstract theories are paired with hands-on coding sessions with Jupyter notebooks. Students will learn to build production-ready deep learning applications, with good strategies for overcoming common pitfalls.

### **Designing and Implementing Production Machine Learning Systems (MLOps)**

Clock Hours: 20

Recommended Prior Knowledge and Skills: *It is expected you have familiarity with an object-oriented programming language (preferably Python) and experience with basic machine learning concepts and models. Some previous exposure to a cloud environment (AWS, Google Cloud, Azure, etc...) or other software engineering experience would be helpful but not necessary.*

As machine learning (ML) becomes ubiquitous in technology, there is an increasing need for well-engineered ML systems and processes that enable ML algorithms to drive business value. Enterprise ML has experienced a shift in focus from just the ML models themselves to the software engineering, infrastructure and best practices necessary to support ML at scale in production. Bringing a model from a data scientist's notebook to running live in an application requires robust systems, MLOps and ML governance.

This course is an introduction to ML systems in production that will demonstrate and give students exposure to how real production ML systems operate. Using Python, Docker, Kubernetes, Google Cloud and various open-source tools, students will bring the different components of an ML system to life and setup real, automated infrastructure. It will be mostly in Python, docker, kuberentes, and google cloud in addition to lots of open source tools.

### **Natural Language Processing for Production (NLP)**

Clock Hours: 20

Recommended Prior Knowledge and Skills: *This course will cover the text analytics starting from very basics and use Python. We keep the code in a Jupyter notebook using functions and will not dive into object-oriented programming, so a medium level of Python knowledge suffices to*

*comprehend the course content and assignments.*

This course demonstrates a practical and intuitive approach to NLP applications through a variety of different use-cases. Essentials and practical fundamentals of NLP methods are presented via generic Python packages including but not limited to Regex, NLTK, SpaCy and Huggingface. The high-level foundations followed by hands-on code examples on a notebook environment will be studied touching on different aspects of NLP from conventional statistical text analytics approaches to the state-of-the-art deep/transfer learning models paired with result interpretations, industry challenges, visualizations and a prototype web application.

## ACADEMIC POLICIES AND PROCEDURES

### DEFINITION OF A CLOCK HOUR

NYC Data Science Academy offers clock hour vocational programs and professional development courses. All courses offered at the Academy are measured in clock hours.

A clock hour is defined as 60 minutes with 50 minutes of class time and 10 minutes of break time. Breaks may be taken every clock hour or combined in two adjacent hours.

### SATISFACTORY ACADEMIC PROGRESS

#### Measures of Progress

Student academic progress in the Data Analytics and Data Science programs is measured in quantitative and qualitative terms. The Quantitative Measure for progress is student attendance rate. The minimum standard for satisfactory progress is to complete 85% of the scheduled clock hours at each evaluation point of the program. Additionally, the Maximum Timeframe in which a student must complete the total program clock hours is 150% of the set program length in weeks. For example, the maximum allowable time frame for a student enrolled in a 12-week program is 18 weeks.

The Qualitative Measure for satisfactory academic progress is successful completion of course projects with at least a C or higher grade at each Evaluation Point of the program. There are four projects in the program. At each Evaluation Point, a student must have successfully completed the required number of projects in that period and achieve a Pass grade for the required exam(s) in that period to be considered meeting the Qualitative Measure satisfactorily.

#### Evaluation Points

Students in all bootcamp programs whose lengths are 12 weeks or longer are evaluated for academic progress at four equally divided Evaluation Points. The first Evaluation Point is at 25% of the program, the second Evaluation Point is at the half-way (50%) point of the program length, the third Evaluation Point is at 75% of the program length, and the fourth Evaluation Point is at the 100% point of the program length. At each Evaluation Point, students are evaluated for achieving 85% attendance rate of the scheduled class hours and achieving C or higher grade for the applicable number of projects and a Pass grade for the required exam(s).

Students enrolled in the Data Analytics Bootcamp (residential) program have three Evaluation Points. The first two Evaluation Points are at the third week and sixth week, and the third Evaluation Point is at the end of the program (7<sup>th</sup> week).

The Evaluation Points for all vocational programs are listed in the table below.

Program	Evaluation Point I	Evaluation Point II	Evaluation Point III	Evaluation Point IV
Data Science with Machine Learning	Week 3	Week 6	Week 9	Week 12



(Residential; 12 Weeks)				
Data Science with Machine Learning (Online Full-Time; 16 Weeks)	Week 4	Week 8	Week 12	Week 16
Data Science with Machine Learning (Online Part-Time; 24 Weeks)	Week 6	Week 12	Week 18	Week 24
Data Analytics Bootcamp (Residential; 7 weeks)	Week 3	Week 6	Week 7	N/A
Data Analytics Bootcamp (Online; 12 Weeks)	Week 3	Week 6	Week 9	Week 12

At each Satisfactory Academic Progress (SAP) Evaluation Point, the Bootcamp Manager and the Student Services Officer will conduct evaluations and generate an SAP Report. Such an SAP Report is distributed to Bootcamp Coordinators to conduct SAP Advising and take appropriate intervening actions to facilitate student success.

### **Consequences of Failure to Meet Minimum Standard**

When a student fails to meet the minimum standard of one or more SAP measures, the student will be given **Academic Warning**, and an advising session will be held to inform the student of the failure to meet SAP standard(s). Students will be given a limited timeframe (typically no more than two weeks) to remedy the applicable academic deficiency.

When a student fails to remedy the applicable deficiency within the set timeframe, the student will be placed on **Academic Probation**. An advising session will be held to inform the student of the Academic Probation status and the severe consequence if the applicable deficiency is not remedied within a period of 30 days.

When a student fails to remedy the applicable deficiency or deficiencies within the **Academic Probation** period, the student will be dismissed from the program. Such **Academic Dismissal** is final and not appealable unless there are mitigating circumstances that had contributed to the failure to meet minimum standards and/or to the failure to remedy the applicable deficiency or deficiencies.

### **SAP Advising and Intervention**

SAP Advising is usually conducted by Bootcamp Coordinators and Bootcamp Managers. Occasionally, faculty members and other academic administrators may conduct such SAP Advising sessions. An SAP Advising Form is to be used to document the advising session. One copy of the completed form is to be given to the student and the other one is to be placed in the student file.

Depending on the specific circumstance of the student, the advisor may assign a Teaching Assistant or Academic Mentor or Instructor to assist the student in overcoming the learning challenges. Such intervening may include actions such as tutoring, make-up work, evaluative feedback on the student's project.

## **SAP Appeal**

Academic Dismissal for failure to meet minimum SAP standard(s) may be appealed only when there are mitigating circumstances which the student believes have contributed to such a failure. A mitigating circumstance is defined as something that is beyond the control of the student. Examples of mitigating circumstances are call to military service, death of a family member, natural disasters, or other life-changing events such as a major accident or serious health problems.

Should there be a mitigating circumstance that had contributed to the failure to meet and remedy SAP deficiency, the student may, within three days of receiving the Academic Dismissal notice, write a letter of appeal to the Director of Education to present the reason(s) of the appeal and attach to the letter all relevant supporting documentation of the mitigating circumstance. The Director of Education will evaluate the appeal and documentation and respond in writing to the student within seven days of receiving the appeal.

## **Reinstatement**

When the appeal is granted, the student's enrollment is reinstated, and the student will remedy the academic deficiency and is expected to meet or exceed the minimum standards of satisfactory academic progress at the next evaluation point.

## **ASSESSMENT OF STUDENT WORK**

Students are assigned a variety of work to reinforce learning and apply concepts, principles and skills to cases and problems. Some of the "homework" is not graded by Instructors and is often assessed informally in homework discussion sessions led by Teaching Assistants.

Three tests and one final exam are taken by the students in the Data Science with Machine Learning bootcamp at different intervals and graded by TAs, and such grades are recorded as Pass or Fail and considered as part of student academic achievement. Four data analytics and data science projects are evaluated by Instructors and assigned A, B, C, or F grades. The four course projects are graded for three major categories: programming codes, critical analysis, and project presentation. The grading system consists of four grades: A, B, C, and F. A grading rubric is used for each project, and students are informed of grading criteria in the rubrics. When a student receives a failing grade for a given project, the student will receive academic advising to work on the project for improvement.

Students in the Data Analytics Bootcamp will take two exams and complete three projects. Students must achieve a Pass grade for the two exams and a C or better grade for each of the projects.

Instructors provide assessment feedback in oral and written formats. When the project is presented to the whole class, the instructor gives oral assessment feedback at the end of the respective project presentation. Within a week, written assessment feedback is provided to the student(s) regarding their project. Such written assessment feedback is collected and placed in

a repository along with the student projects in the School's Learning Management System.

The required projects are listed at the end of each bootcamp program information, following the Plan of Study.

### **GRADUATION REQUIREMENTS**

Students enrolled in vocational programs must meet the following requirements in order to graduate:

1. Attended a minimum of 85% of all class hours.
2. Successfully completed all the required course projects and achieved a C or better grade.
3. Achieved a Pass grade for the required examinations.
4. Received a Pass grade for required substantive interactions and participation. (Online only)
5. Fulfilled all financial obligations to the Academy.
6. Returned any loaned material to the Academy.

Students enrolled in professional development courses must meet the following requirements in order to be eligible for receiving the applicable certificate of course completion:

- Completed 80% of the assigned homework.
- Completed course project(s) as established in course syllabus.
- Attended a minimum of 85% of all class hours.

### **CREDENTIAL OF AWARD**

The credential of award for the vocational Data Analytics and Data Science programs is a Certificate of Completion, which specifies the program name and number of clock hours.

Students who successfully complete a professional development course receive a Certificate of Completion for the applicable course.

### **ATTENDANCE FOR RESIDENTIAL STUDENTS**

The faculty and staff of NYC Data Science Academy regards attendance for scheduled classes as part of expectations in a professional environment. Employers want to hire people who are reliable and will show up for work as scheduled. Therefore, students in both vocational programs and professional development courses are expected to attend all scheduled classes and participate actively in learning activities. Realistically, though, we recognize that extenuating circumstances could prevent some students from achieving 100% attendance. Therefore, students are required to attend a minimum of 85% of all required class hours to be eligible for receiving the certificate of completion for the applicable vocational program or professional development course.

The classroom instructor maintains the attendance roster. The attendance roster is kept at the school at all times. In the event that a substitute instructor conducts a class, the

substitute instructor must initial the day's attendance.

Attendance is typically taken in the following manner:

1. Approximately ten minutes after class begins.
2. Approximately ten minutes before class ends.

A student arriving 15 minutes late for class is considered to be Tardy, and a student leaving class 15 minutes early is considered to be a Leave Early. Two Tardies or two Leaves Early or a combination of one Tardy and one Leave Early will constitute one hour (60 minutes) of absence.

Attendance rosters are kept in secure storage after the bootcamp term is over or a professional development course is completed. The Student Service Officer oversees maintaining such attendance records.

### **ATTENDANCE FOR ONLINE OR IDL STUDENTS**

Attendance for students in the Online or Interactive Distance Learning (IDL) Data Analytics and Data Science programs is recorded on a weekly basis. A week is defined as the period between 00:00 a.m. on Sunday and 11:59 p.m. on Saturday based on Pacific Time. To be counted as in attendance, the student must meet the following criteria during the given week:

1. Watched at minimum 70% of the assigned lesson videos for the week;
2. Completed the required number of posts in Discussion Forum;
3. Completed the assigned assessment activities for the week;
4. Attended the required Live Learning Session of the applicable week;
5. Completed the required Code Review activities of the applicable week;
6. Participated in the required Project Mentoring activities of the applicable week; and
7. Completed at least one meeting with an Academic Mentor.

### **Consequence of Excessive Absences**

The Student Services Officer monitors student attendance along with Bootcamp administrators. If a student in the residential bootcamp is absent three days consecutively without notifying the school, the student may be considered voluntarily withdrawn from the bootcamp program. The school will contact the student by telephone and in writing and formally advise the student of the withdrawal. In the event that excessive absences were caused by extenuating circumstances, the student may be advised to request a Leave of Absence. The student may also be considered to restart the program with the next available cohort and the tuition paid will remain valid, unless there has been a significant financial or educational change to the program, in which case, extra tuition may be assessed and charged. The student has the option to withdraw from the school, in which case refund calculations will be done according to the Academy's Refund Policy.

When a student in the IDL bootcamp did not meet the requirements to be considered present for one week, the IDL Bootcamp Coordinator or the Student Services Officer will contact the student

in writing and formally advise the student that continued absence in the following week will result in dismissal from the program. In the event that excessive absences were caused by extenuating circumstances, the student may be advised to request a Leave of Absence. The student may also be considered to transfer to the next available cohort and the tuition paid will remain valid, unless there has been a significant financial or educational change to the program, in which case, extra tuition may be assessed and charged. The student has the option to withdraw from the school, in which case refund calculations will be done according to the Academy's Refund Policy.

### **ACADEMIC ADVISING**

In addition to the academic advising for satisfactory academic progress situations, the administrators and instructors may find it necessary to advise students on poor attendance or poor academic performance on individual assignment, exam, or course project. Such academic advising is a proactive way to facilitate student success. This kind of academic advising could be informal or formal. Informal advising could be in the form of a conversation outside class time. Formal advising is typically in a meeting room or via a conference call, in which the reason for advising is explained and certain expectations are set up for the student to meet. Such formal academic advising is usually documented with an Academic Advising Form, which requires signatures of both the advisor and the student.

### **GUEST SPEAKERS AND SPECIAL EVENTS**

NYC Data Science Academy sometimes invites industry professionals to be guest speakers and organizes special events for students to meet industry professionals and successful alumni. Such guest speakers and special events are invaluable learning opportunities for students. Therefore, students are expected to attend such events for their professional benefits.

### **MAKE-UP**

#### **Residential Bootcamps**

When a student wants to make up a missed lesson for both academic benefit and attendance, the student may request a make-up session by completing the Make-Up Request Form, provided that details of any extenuating circumstance that had caused the absence can be supported with appropriate documentation. When the Bootcamp Manager or Bootcamp Coordinator approves the request, the student will follow instructions on the form to complete the make-up session. For comparable academic experience, the student will be required to watch the recorded video of the missed lesson and complete the associated assignments. The make-up request and make-up work required must be completed and submitted for review within two weeks of the missed session.

Based on the student's needs, an appointment may be scheduled to meet with the Instructor of that lesson to ask questions or meet with the Teaching Assistant of the Bootcamp section for questions and answers or some private tutoring. When the learning activities are completed and the assignments are submitted to the Teaching Assistant for review, the class is considered "made up." Hours for the same lesson and associated lab activities will be recorded as made-up

in the student's attendance record.

This make-up option is available and may be granted to a residential bootcamp student up to 5% of the total program clock hours.

### **Online (IDL) Bootcamps**

Attendance for online or IDL bootcamp students is measured on a weekly basis. When a student misses a full week of attendance and the absence was caused by extenuating circumstances, the student may request make-up for the missed week's academic learning and attendance by completing and submitting the Make-Up Request Form and submit it to the IDL Bootcamp Coordinator or IDL Bootcamp Manager. Once approved, the student must complete all the required activities and other applicable learning activities in that week and notify the IDL Bootcamp Coordinator and/or Bootcamp Manager. Once reviewed and approved, the attendance record would be modified to show "Attendance Made Up" for the applicable week.

Students in the 16-week full-time bootcamp may make up two (2) weeks of attendance.  
Students in the 24-week part-time bootcamp may make up three (3) weeks of attendance.  
Students in the 12-week Data Analytics Bootcamp may make up one (1) week of attendance.

### **Professional Development Courses**

Students in professional development courses must attend 60% of the scheduled class hours in person and may only make up 40% of the class hours by watching the recorded videos of the lessons and completing applicable assignments.

### **LEAVE OF ABSENCE**

A Leave of Absence may only be granted to a bootcamp student when extenuating circumstances, such as a traffic accident, prolonged illness, maternity leave, or the death of a family member or close relative, make it impossible for the student to continue the training as originally planned.

If the student fails to return on the agreed date of return, the student will be dismissed and receive a refund calculated based on the school's refund policy. The maximum length per Leave of Absence request is two weeks (14 calendar days). A student may be granted up to two Leave of Absence requests, either consecutively or separately during the entire term of the bootcamp.

Any student requesting a Leave of Absence must complete the Academy's Leave of Absence Request Form and provide supporting documentation of the extenuating circumstance(s). The request must be approved by the Academy's Director of Education or Director of Operations or the School Director before it becomes effective.

### **PROGRAM TRANSFER**

A student may request a program transfer when they experience some extenuating circumstance that is life-changing and are unable to continue in their current program or program cohort. With

supporting documentation for such extenuating circumstances, the student may be allowed to request such a transfer. Extenuating circumstances are evaluated on a case-by-case basis, and in principle, a student is allowed only one such transfer and the request for transfer should take place no later than 50% of the total program or course hours. If the extenuating circumstance takes place beyond 50% point, the student should consider taking a Leave of Absence (LOA).

## TUITION AND METHOD OF PAYMENT

NYC Data Science Academy charges only in aggregate tuition for each vocational program or professional development course. The total tuition charges by vocational program and professional development courses are listed in the following two separate tables.

### TUITION FOR VOCATIONAL PROGRAMS

Program Title	Length in Weeks	Tuition Amount
Data Analytics Bootcamp – Residential	7 Weeks	\$9,995
Data Analytics Bootcamp – Online	12 Weeks	\$9,995
Data Science with Machine Learning – Residential	12 Weeks	\$17,600
Data Science with Machine Learning – Online Full-Time	16 Weeks	\$17,600
Data Science with Machine Learning – Online Part-Time	24 weeks	\$17,600

### TUITION FOR PROFESSIONAL DEVELOPMENT COURSES

Course Title	Tuition Amount
Introduction to Python	\$1,590
Introduction to R	\$1,590
Data Analytics with Python	\$1,590
Machine Learning with Python	\$1,990
Data Analytics with R	\$2,190
Machine Learning with R	\$2,990
Big Data with Hadoop and Spark	\$2,990
Deep Learning	\$2,990
Data Science with Tableau	\$1,590

### METHOD OF PAYMENT FOR VOCATIONAL PROGRAMS

NYC Data Science Academy accepts tuition payment by bank transfer, such as wire transfer and ACH Credit, debit/credit card, PayPal, or checks. A deposit of \$5,000 is due upon admittance into the program and after the Enrollment Agreement has been signed. The remaining tuition is to be paid prior to the start of the bootcamp program or on the first day of class in the program. The Academy typically does not provide a payment plan for any student. Nonetheless, a student who has experienced extenuating financial circumstances may request for exceptional consideration. When granted an exception to the policy, a special payment arrangement may be developed to accommodate the extenuating circumstance.

### METHOD OF PAYMENT FOR PROFESSIONAL DEVELOPMENT COURSES

Students enrolling in a professional development course submit their tuition payment online



with their debit/credit card after they complete registration. Occasionally, students may choose to pay with a check, in which case, they typically bring the check to the campus.

### **TUITION CREDIT FROM PROFESSIONAL DEVELOPMENT COURSES**

In order for tuition dollars paid for a professional development course or courses to be awarded as tuition credit for Data Science Bootcamp (either residential or online), the following criteria must be met:

1. The student must enroll in the Bootcamp within nine (9) months of the actual start date of the first PD course.
2. The student must pay a \$5,000 tuition deposit for the Bootcamp within a week of acceptance.
3. The student must start the bootcamp within 12 months of the actual start date of the first PD course.
4. The maximum amount of tuition credit that could be awarded is limited to \$5,000, and this credit could only be applied to the remaining tuition after the tuition deposit is paid in full.

### **FINANCIAL ASSISTANCE**

NYC Data Science Academy's programs are currently not eligible for any Federal or State Financial Aid program.

NYC Data Science Academy could provide introductory information about a few financing organizations such as Ascent and Climb Credit, which fund students directly. The Academy has no affiliation with such funding organizations and recommends that students interested in seeking such funding assistance conduct their own research and make an informed and independent decision.

### **SCHOLARSHIPS**

NYC Data Science Academy offers the following two scholarships for eligible individuals who seek to enroll in the Data Science with Machine Learning program.

#### **Women in Data Science Scholarship**

The Women in Data Science Scholarship is designed for women who have excelled in STEM (Science, Technology, Engineering and Mathematics) discipline and desire to pursue training and a career in the data science field. It is meant to encourage and facilitate such women in developing a successful career in data science. To be eligible for consideration, the applicant must meet the following criteria:

- Woman – gender based on official identification card or passport;
- Undergraduate and/or graduate education in a STEM discipline;
- Merit in research and/or career accomplishments; and
- Strength in Scholarship Application Essay.

There are two scholarships in each quarter, one for in-person bootcamp applicants (four awards in one calendar year), and the other for interactive distance learning (IDL) applicants. Because the IDL

bootcamp starts twice per quarter, the scholarship award will alternate between the beginning of the quarter start and the mid-quarter start for a total of four scholarship awards per calendar year.

Each scholarship award is \$1,500 and awarded in the seventh week after the student starts the program. The scholarship award is primarily to be used toward tuition payment for the program. If tuition is already covered, the scholarship award could be used for living expenses as well.

### **Post-Doctoral Student Scholarship**

The Post-Doctoral Student Scholarship is designed for individuals who have completed a doctoral degree program and desire to pursue training and a career in the data science field. It is meant to encourage post-doctoral scholars to develop a career in data science. To be eligible for consideration, the applicant must meet the following criteria:

- Holds an earned doctoral degree in STEM field from an accredited university;
- Merit in research and/or career accomplishments; and
- Strength in Scholarship Application Essay.

There are two scholarships in each quarter, one for in-person bootcamp applicants (four awards in one calendar year), and the other for interactive distance learning (IDL) applicants. Because the IDL bootcamp starts twice per quarter, the scholarship award will alternate between the beginning of the quarter start and the mid-quarter start for a total of four scholarship awards per calendar year.

Each scholarship award is \$1,500 and awarded in the seventh week after the student starts the program. The scholarship award is primarily to be used toward tuition payment for the program. If tuition is already covered, the scholarship award could be used for living expenses as well.

### **Application Process**

Prospective students are to apply for the scholarship online by completing the Scholarship Application Form, submitting the Scholarship Application Essay, and providing the required supporting documents as specified on the website.

### **Scholarship Review and Award Committee**

The Scholarship Review and Award Committee is composed of Bootcamp Managers, and the Career Services Advisor. The Committee members will review all applications and meet to deliberate and reach consensus in selecting the best candidates to award the scholarships each quarter.

The current members of the Scholarship Review and Award Committee are as follows:

- Mr. Zeyu Zhang, Bootcamp Manager, School Director at NYC Data Science Academy
- Ms. Shangxuan Vivian Zhang, School Director at NYC Data Science Academy
- Dr. Cole Ingraham, Lead AI Instructor and School Director at NYC Data Science Academy
- Courtney Graves, Career Services Advisor, NYC Data Science Academy

## **CANCELLATION AND REFUND POLICY**

This cancellation and refund policy (Policy) complies with applicable federal and New York State laws and regulations and the standards of accreditation by the Accrediting Council for

Continuing Education & Training (ACCET). NYC Data Science Academy seeks to promote goodwill through the use of explicitly stated, fair, and equitable cancellation and refund practices pertaining to cancellations, withdrawals, and terminations, which take into consideration the following factors:

- The legitimate reasons why an applicant or student may not be able to either start or complete the training; and
- The reasonable expenses incurred by the institution.

## **DEFINITIONS**

Cancellation: A student who never attends classes at the institution after enrolling and informs the institution, except as noted in the section entitled “Cancellation After the Start of Class.”

No Show: A student who never attends class at the institution after enrolling and does not inform the institution.

Withdrawal: A student who attends at least one class at the institution but does not complete his/her program.

Termination: A type of withdrawal initiated by the institution due to failure to meet one or more institutional policies.

Period of Financial Obligation: The portion of the program for which the student is legally obligated to pay, which may be less than the full program and may not, under any circumstances, exceed a period of 12 months.

Last Date of Attendance (LDA): The final date the student attends class for in person programs and the last date of academic activity for online programs.

Date of Determination (DOD): The date the student notifies the school of his or her withdrawal, or the date the institution terminates or administratively withdraws the student.

## **GENERAL CONSIDERATIONS**

- 1) NYC Data Science Academy, through this Policy, is documenting a fair and equitable, clearly defined, and uniformly administered cancellation and refund policy for cancellations, withdrawals, and terminations.
- 2) The requirements established in this Policy are the acceptable standards for making refunds.
- 3) The Academy’s Policy is in compliance with the New York State Education Department, Bureau of Proprietary School Supervision.
- 4) The Academy’s Policy is in compliance with ACCET’s standards and policy.
- 5) The Academy will complete and document refund calculations for each student who cancels, withdraws, or is withdrawn from training. Said documentation will demonstrate that refunds are timely and accurate, including but not limited to the following

information:

- a) Start date
- b) Last date of attendance for in person, last date of academic activity for online (LDA)
- c) Date of determination (DOD)
- d) Charges to the student
- e) Total amount paid
- f) Weeks earned and resulting percentage of program completed
- g) Calculation of refund

**REFUND DUE DATES**

- 1) If an applicant never attends class (no-show) or cancels the contract prior to the class start date, refunds due will be made within forty-five (45) calendar days of the first scheduled day of class or the date of cancellation, whichever is earlier.
- 2) For an enrolled student, the refund due will be calculated based on the last date of attendance (LDA) and will be paid within forty-five (45) calendar days from the documented date of determination (DOD). The date of determination is the date the student gives written or verbal notice of withdrawal to the institution or the date the institution terminates the student, by applying the institution’s attendance, conduct, or Satisfactory Academic Progress policy. If a student provides advanced notice of withdrawal such that the 45-day window for refund processing ends before the last date of attendance, the refund will be paid within forty-five (45) calendar days from the last date of attendance.
- 3) The failure of a student to notify the Academy in writing of withdrawal may delay refund of tuition pursuant to Section 5002 of the Education Law.

**REFUND GUIDELINES**

Any bootcamp student requesting cancellation within seven (7) days after signing the Enrollment Agreement, or within the first week of the program, whichever comes later, will be refunded all money paid to the school. Thereafter, in the event of cancellation or termination by the school, refunds will be prorated based on the schedule below.

**QUARTER REFUND SCHEDULES**

(applicable to Data Science Bootcamp Programs Data Science with Machine Learning

**Program (Residential, 12 weeks)**

<b>12 – Week Quarter</b>	<b>Refund Option I</b>		<b>Refund Option II</b>	
If termination occurs:	School May Keep	Student Refund	School May Keep	Student Refund

Prior to or during the first week	0%	100%	0%	100%
During the second week	22.3%	77.7%	25%	75%
During the third week	30.7%	69.3%	50%	50%
During the fourth week	39.0%	61.0%	75%	25%
During the fifth week	47.3%	52.7%	100%	0%
During the sixth week	54.9%	45.1%	100%	0%
During the seventh week or beyond	100.0%	0.0%	100%	0%

**Data Science with Machine Learning Program (Online, 16 Weeks)**

16 – Week Term	Refund Option I		Refund Option II	
	School May Keep	Student Refund	School May Keep	Student Refund
If termination occurs:				
Prior to or during the first week	0.0%	100.0%	0%	100%
During the second week	18.2%	81.8%	20%	80%
During the third week	24.4%	75.6%	35%	65%
During the fourth week	30.7%	69.3%	50%	50%
During the fifth week	36.9%	63.1%	70%	30%
During the sixth week	43.2%	56.8%	100%	0%
During the seventh week	49.4%	50.6%	100%	0%

During the eighth week	55.7%	44.3%	100%	0%
During the ninth week or beyond	100%	0.0%	100%	0%

### Data Science with Machine Learning Program (Online, 24 Weeks)

Students enrolled in the part-time Data Science Bootcamp – Online pay their tuition in two payment periods, prior to or at the start of the first 12-week period and prior to the start of the second 12-week period.

#### First Quarter

1 <sup>st</sup> 12 – Week Quarter	Refund Option I		Refund Option II	
	School May Keep	Student Refund	School May Keep	Student Refund
If termination occurs:				
Prior to or during the first week	0%	100%	0%	100%
During the second week	22.3%	77.7%	25%	75%
During the third week	30.7%	69.3%	50%	50%
During the fourth week	39.0%	61.0%	75%	25%
During the fifth week	47.3%	52.7%	100%	0%
During the sixth week	54.9%	45.1%	100%	0%
During the seventh week or beyond	100.0%	0.0%	100%	0%

#### Second Quarter

2 <sup>nd</sup> 12 – Week Quarter	Refund Option I		Refund Option II	
	School May Keep	Student Refund	School May Keep	Student Refund
If termination occurs:				
During the first week	22.3%	77.7%	25%	75%

During the second week	30.7%	69.3%	50%	50%
During the third week	39.0%	61.0%	75%	25%
During the fourth week	47.3%	52.7%	100%	0%
During the fifth week	54.9%	45.1%	100%	0%
During the sixth week or beyond	100.0%	0.0%	100%	0%

**Data Analytics Bootcamp Program (Residential, 7 Weeks)**

7 – Week Quarter	Refund Option I		Refund Option II	
	School May Keep	Student Refund	School May Keep	Student Refund
If termination occurs:				
Prior to or during the first week	0%	100%	0%	100%
During the second week	28.6%	71.4%	25%	75%
During the third week	42.9%	57.1%	50%	50%
During the fourth week	55.0%	45.0%	75%	25%
During the fifth week or beyond	100%	0%	100%	0%

**Data Analytics Bootcamp Program (Online, 12 Weeks)**

12 – Week Quarter	Refund Option I		Refund Option II	
	School May Keep	Student Refund	School May Keep	Student Refund
If termination occurs:				
Prior to or during the first week	0%	100%	0%	100%
During the second week	22.3%	77.7%	25%	75%

During the third week	30.7%	69.3%	50%	50%
During the fourth week	39.0%	61.0%	75%	25%
During the fifth week	47.3%	52.7%	100%	0%
During the sixth week	54.9%	45.1%	100%	0%
During the seventh week or beyond	100.0%	0.0%	100%	0%

**MINI REFUND SCHEDULE – applicable to Professional development Courses**

A student who cancels within 7 days of signing the Enrollment Agreement but before instruction begins shall receive full refund for all monies paid.

If termination occurs:	School May Keep	Student Refund
0-15% of the program	0%	100%
16-30% of the program	25%	75%
31-45% of the program	50%	50%
46-60% of the program	75%	25%
After 60% of the program	100%	0%



**CHARGES OTHER THAN TUITION**

NYC Data Science Academy does not require or charge any fee for additional materials including curricular materials, supplies, equipment, rentals, or any similar items and, as such, will not have any fee refund to any student.

## **STUDENT POLICIES**

### **STUDENT CONDUCT**

NYC Data Science Academy is committed to fostering a collaborative, safe, and respectful environment in which students can learn and work with each other and with the faculty. As students interact with their fellow students, staff and faculty, and the business community, they are expected to act in a professional, respectful manner that is complementary to the learning process and the academic environment associated with their education and training. Students are expected to comply with Federal, State, and local laws.

Failure to meet student conduct expectations and any of the student policies listed in this section of the catalog may lead to disciplinary actions, including and up to dismissal from the Academy.

### **COPYRIGHT PROTECTION POLICY**

Students will be held accountable for failure to comply with Federal copyright and criminal laws forbidding the copying or alteration of copyright-protected materials such as computer programs, music, movies, photographs, or written materials and are expected to report violations if they become aware of them.

### **ACADEMIC HONESTY POLICY**

NYC Data Science Academy can best function and accomplish its mission in an atmosphere of high ethical standards. As such, the Academy expects students to observe all accepted principles of academic honesty. Academic honesty in the advancement of knowledge requires that students respect the integrity of one another's work and recognize the importance of acknowledging and safeguarding the validity of intellectual property. Students are expected to maintain complete honesty and integrity in all academic work attempted while enrolled at the Academy.

### **INTERNET USAGE**

Internet access to global electronic information resources is used by the Academy to assist students in obtaining education-related data and technology. The following guidelines have been established to help ensure responsible and productive Internet usage.

All Internet data that is composed, transmitted, or received via the campus computer communications systems is considered to be part of the official records of the school and, as such, is subject to disclosure to law enforcement or other third parties. Consequently, students should always ensure that the information contained in the Internet email messages and other transmissions is accurate, appropriate, ethical, and lawful.

### **PERSONAL PROPERTY**

All personal property is the sole responsibility of the student. The Academy does not assume liability for any loss or damage. It is recommended that each student takes proper care of his or her own personal property.

## **DRUG-FREE ENVIRONMENT**

NYC Data Science Academy is subject to all local, State, and Federal laws related to the possession, use, distribution, manufacture, or sale of drugs or other illegal substances. The use, possession, selling, or distribution of drugs or other illegal substances or paraphernalia on school property or at any school-sponsored activity is strictly prohibited. This policy also applies to the misuse of legally acquired prescription drugs and medications.

Any student apprehended with drugs and/or paraphernalia is subject to dismissal and risks prosecution.

## **CAMPUS SECURITY**

The NYC Data Science Academy makes every effort to provide a safe environment for its students. As required by the U.S. Department of Education, the NYC Data Science Academy publishes all known occurrences of crimes committed on campus. These statistics are available in the School Director's office.

If a crime is committed, a police report must be completed and filed. Students are required to report any and all occurrences of a crime to NYC Data Science Academy personnel. If a sexual assault occurs on campus, the victim and witnesses to the crime must report the incident to the school administration. The police will be contacted.

## **SEXUAL HARASSMENT**

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature that tends to create a hostile or offensive work environment. Any student or employee of the NYC Data Science Academy who is a victim of a sexual offense in the facility or at a school-related activity must report the incident at once to the School Director. An investigation will take place.

## **EMERGENCY PROCEDURES**

### **Fire**

The fire alarm and strobe lights will be activated in case of a fire or fire drill. Students and all school personnel should evacuate the building according to evacuation procedures posted in each area. Students should wait at the designated location until given the signal to return to the building. Both the need to evacuate the building and the fact that it is safe to return will be communicated by a designated school administrator.

### **Bomb Threat**

If a bomb threat is received, members of the administrative staff will notify each classroom of the need to evacuate the building using the posted evacuation procedure. When the building has been declared safe, students and personnel will be allowed to return to the building.

### **Active Shooter**

In the event of an active shooter situation, students are encouraged to first try to safely escape.

If a safe escape is not possible, lock all doors, block the door, and hide away from the door. Instructors are trained and will guide their class. School personnel will call 911 at the earliest possible opportunity to do so. If you have any questions concerning campus safety and security, please contact the Director of Education or the School Director.

### **CHANGES IN POLICIES**

NYC Data Science Academy reserves the right to make changes to its policies and procedures with prior approval of New York State Department of Education, Bureau of Proprietary School Supervision. The institution further reserves the right to limit student registration for classes, to discontinue classes due to lack of enrollment with full tuition refunds to enrolled students, to revise tuition rates with prior approval of New York State Department of Education, Bureau of Proprietary School Supervision, and to change class times and instructor assignments with prior approval of New York State Department of Education, Bureau of Proprietary School Supervision.

## **STUDENT SUPPORT SERVICES**

### **NEW STUDENT ORIENTATION**

To facilitate a student's transition into their program of study, NYC Data Science Academy offers an orientation to all new students on the first day of class. The orientation introduces students to the school, its expectations of them, services available to support their learning, and important policies and procedures they are expected to follow. An important aspect of the orientation is to help students gain familiarity with their intended program of study and certain program requirements.

### **STUDENT SUPPORT SERVICES**

Student support for bootcamp students starts at the time of enrollment. Based on the student's Technical Assessment result, recommendations are made to students with specific knowledge and skill areas to focus on in the pre-work topics so that they could be better prepared for success. The recommendations are provided by those who graded the Technical Assessments and conveyed to the prospective students by Admissions Officers.

After matriculation into the program, residential bootcamp students are supported not only by their instructors but also Teaching Assistants (TAs) who have been through the bootcamp program and possess domain knowledge and practical skills. TAs are available each afternoon from 1:30 p.m. to 6:30 p.m. There is at least one TA assigned to each section of 25 students in the residential bootcamp programs. Additionally, each lecture session is recorded in high-definition video and made available to students for review or view if they have missed a certain lecture session.

To ensure that residential bootcamp students are receiving the support they need, they are encouraged to give feedback in the form of daily surveys that they can complete either anonymously or by identifying themselves. The surveys are read routinely by instructors and/or bootcamp administrators. Feedback from students is also obtained on Friday afternoons during the "pulse check" when members of the staff meet with students as a group to ask for feedback directly.

Online bootcamp students are supported by instructors and Academic Mentors. Students are each given eighty (80) credits with which they can book one-on-one sessions to ask questions and seek tutoring when needed. Biweekly "Ask Me Anything (AMA)" sessions are conducted by instructors and/or bootcamp administrators to perform "Pulse Checks" for student feedback on their learning, to conduct project demos, and to allow students to ask any question they want. Information obtained from such AMA sessions enable our instructors and/or bootcamp administrators to provide targeted assistance to students who may be challenged with their learning.

Student support for professional development courses is available through Piazza, an online Learning Management System (LMS) that is used to share information with students and instructors. To ensure that professional development students are receiving the support they

need, students are encouraged to provide feedback in Piazza, the Learning Management System, or communicate any issues or concerns via private email to the instructor or to the Student Services Officer. Additionally, an email is sent to students at the end of the course with a link to a survey to collect feedback.

### **CAREER SERVICES**

Workshops are provided for bootcamp students on resume writing, interview skills, and LinkedIn profile revisions. Additionally, each student is provided a one-on-one session with a Career Services Advisor to help them review their resume(s), cover letters, and other job search documents.

Although placement assistance is provided, the school cannot guarantee a job to any student or graduate. The school employs a variety of resources to develop relationships with potential hiring partners and to assist students in getting interviews for jobs. The list of hiring partners and the dynamics in interactions with such partners are based on their hiring cycle and timing of graduation. The Academy does its best to obtain information about openings in a timely fashion. The Career Services Advisor also recommends several job posting websites for graduates to sign up to receive job alerts in the career field of their own interest.

There is no job placement assistance provided to students enrolled in the professional development courses. These courses are designed for adult working professionals who are enrolled only to enrich their knowledge and skills of data science.

### **RECORD SERVICES**

Transcripts are kept on record. Students may submit a request in writing to the Student Service Officer or School Director to obtain duplicates. Transcripts will not be released without written permission of the student, graduate, or legal guardian (if a dependent student).

Receipts of tuition payment are kept electronically and provided to any student who requests a receipt of tuition payment.

Certificates for bootcamp students are awarded at the end of the program when all graduation requirements are met satisfactorily.

Certificates for students in professional development courses are awarded at the end of the course when all completion requirements are met satisfactorily.

## **GRIEVANCE PROCEDURES**

### **Student Dismissal Procedure and Appeals Process**

Students who are dismissed from the Academy for non-academic reasons shall be notified in writing. A student has the right to appeal the Academy's dismissal decision and must appeal the decision in writing by requesting an appeal hearing. The request must be received by the School Director within seven (7) days from the date of notification of dismissal.

Upon receipt, a review by the School Director will be conducted as to the validity of the appeal. If the School Director determines that a hearing is warranted, a committee will be established at the school to hear the student's appeal for reinstatement. The student will be notified and given the opportunity to present at that hearing. A decision will be made within five (5) business days of the hearing, and the student will be notified of the decision in writing.

### **Complaint**

All students are encouraged to discuss concerns, academic issues or complaints with the NYC Data Science Academy's faculty and staff. Problems involving classroom or academic matters should first be discussed with the instructor. If the issue is not resolved to the student's satisfaction, the student may escalate the matter to the Bootcamp Manager and/or Director of Education. The Bootcamp Manager and/or Director of Education will make appropriate inquiries and recommend a resolution within five (5) days of receiving the complaint.

### **Grievance**

Unresolved concerns through the first level of administration should be referred to the School Director at the Academy. The School Director will make appropriate inquiries and make a recommendation within five (5) business days of receiving the grievance.

In cases where the grievance is not settled at the institutional level, the student may also contact the following Institutions:

New York State Education Department  
116 West 32nd Street, 5th Floor  
New York, New York 10001  
Attention: Bureau of Proprietary School Supervision  
(212) 643-4760  
<http://www.acces.nysed.gov/bpss/student-rights>

Students may also file a complaint with ACCET by following the instructions below:

ACCET  
Chair, Complaint Review Committee  
1722 N Street, NW  
Washington, DC 20036

Telephone: (202) 955-1113 Fax: (202) 955-1118 or (202) 955-5306

Email: [complaints@accet.org](mailto:complaints@accet.org)

Website: [www.accet.org](http://www.accet.org)

Note: Complainants will receive an acknowledgement of receipt within 15 days.

Complaints should be in writing and mailed, faxed, or emailed to the ACCET office. Complaints received by phone will be documented, and the complainant will be requested to submit the complaint in writing.

The letter of complaint must contain the following:

- A detailed description of the problem(s);
- The approximate date(s) that the problem(s) occurred;
- The full name(s) and title(s) or position(s) of the individual(s) involved in the problem(s), including both institutional staff and/or other students who were involved;
- Evidence demonstrating that the institution's complaint procedure was followed prior to contacting ACCET;
- The name and mailing address of the complainant; if the complainant specifically requests that anonymity be maintained, ACCET will not reveal his or her name to the institution involved.

In addition to the letter of complaint, copies of any relevant supporting documentation should be forwarded to ACCET (e.g., the enrollment agreement, the syllabus or course outline, correspondence between the student and NYC Data Science Academy).



## **ADMINISTRATORS, FACULTY AND STAFF INFORMATION**

### **ADMINISTRATORS**

Shangxuan (Vivian) Zhang

Director of Student Services/Career Services Manager/Manager of Student Enrollment/School Director

M.S. in Applied Math and Statistics, State University of New York at Stony Brook

M.S. in Computer Science, San Jose State University

Dr. Cole Ingraham

Director of Operations/School Director

DMA in Music Composition, University of Colorado at Boulder

MFA in Electronic Music & Recording Media, Mills College

BM in Music Composition, University of the Pacific

Zeyu Zhang

Director of Education and Compliance/School Director/Bootcamp Manager

M.S. in Electrical Engineering, New York University

### **LICENSED AGENTS**

Shangxuan (Vivian) Zhang

Courtney Graves

### **FACULTY**

Hasan Aljabbouli

Part-Time Instructor

Data Analytics with Python

MPhil and Ph.D. in Systems Engineering, Cardiff University, UK

Shangxuan (Vivian) Zhang

All Subjects of the Bootcamp Program

M.S. in Applied Math and Statistics, State University of New York at Stony Brook

M.S. in Computer Science, San Jose State University

Zeyu Zhang

All Subjects of the Bootcamp Program

M.S. in Electrical Engineering, New York University

Dr. Cole Ingraham

AI, Deep Learning, Generative AI

DMA in Music Composition, University of Colorado at Boulder

MFA in Electronic Music & Recording Media, Mills College

BM in Music Composition, University of the Pacific

## **ACADEMIC MENTORS & TEACHING ASSISTANTS**

Yvonne Lau  
Academic Mentor  
B.A. in Economics and Mathematics, Yale University

Jonathan Presley  
Academic Mentor  
Master of Public Health, George Washington University

Denis Nguyen  
Academic Mentor  
Master of Business and Science, Rutgers University

David Corrigan  
Academic Mentor  
Ph.D. in Microbiology and Immunology, Columbia University in the City of New York

Timothy Liu  
Academic Mentor  
M.S. in Statistics, Duke University

Kyle Gallatin  
Academic Mentor  
M.S. in Molecular and Cellular Biology, Quinnipiac University

**Appendix A:**  
**CONSUMER ADVISORY INFORMATION**

***Complaint Procedure***

If you are or were a student at the NYC Data Science Academy and you believe that the school or anyone representing the school has acted unlawfully, you have the right to file a complaint with our administrative office at 500 Eighth Ave., Ste. 905, New York, NY 10018.

Unresolved complaints should be reported to the New York State Education Department. You may file complaints about the conduct of the school, advertising, standards and methods of instruction, equipment, facilities, qualifications of teaching and management personnel, enrollment agreement, methods of collecting tuition and other charges, school license or registration, school and student records, and private school agents.

***Disclosure Information to Prospective Students***

All prospective and enrolled students in a non-degree granting proprietary school are required to receive this information. This information provides an overview of students' rights with regard to filing a complaint against a school and accessing the tuition reimbursement fund if they are a victim of certain violations by the school.

Trade schools which are licensed by the New York State Education Department and business schools which are registered by this Department are required to meet very specific standards under the Education Law and Commissioner's Regulations. These standards are designed to help ensure the educational appropriateness of the programs which schools offer. It is important for you to realize that the New York State Education Department's Bureau of Proprietary School Supervision closely monitors and regulates all non-degree granting proprietary schools. The schools are required to have their teachers meet standards in order to be licensed by the Department. Schools are also required to have their curriculum approved by the New York State Education Department every three years, thereby helping to ensure that all curriculum offered in the schools are educationally sound.

In addition, staff members of the Bureau of Proprietary School Supervision are often in the school buildings monitoring the educational programs being offered. The interest of the New York State Education Department is to ensure that the educational program being offered meets your needs and that your financial investment is protected.

The New York State Education Department's Bureau of Proprietary School Supervision wishes you success in your continued efforts to obtain the necessary skill training in order to secure meaningful employment. In addition, Bureau staff will continue to work with all the schools to help ensure that a quality educational program is provided to you.

***Who can file a complaint?***

If you are or were a student or an employee of a Licensed Private or Registered Business School

in the State of New York and you believe that the school or anyone representing the school has acted unlawfully, you have the right to file a complaint with the New York State Education Department.

***What can a student or employee complain about?***

You may make complaints about the conduct of the school, advertising, standards and methods of instruction, equipment, facilities, qualifications of teaching and management personnel, enrollment agreement, methods of collecting tuition and other charges, school license or registration, school and student records, and private school agents.

***How can a complaint be filed by a student or employee?***

You should try to resolve your complaint directly with the school unless you believe that the school would penalize you for your complaint. Use the school's internal grievance procedure or discuss your problems with teachers, department heads, or the school director. We suggest that you do so in writing and that you keep copies of all correspondence to the school. However, the school cannot require you to do this before you file a complaint with the New York State Education Department. If you do file a complaint with the Department, please advise the Bureau of any action that you have taken to attempt to resolve your complaint.

**The steps you must take to file a complaint with the New York State Education Department are:**

1. Write to the New York State Education Department at 116 West 32<sup>nd</sup> Street, 5<sup>th</sup> Floor, New York, NY 10001 or telephone the Department at (212) 643-4760 requesting an interview for the purpose of filing a complaint. Bring all relevant documents with you to the interview, including an enrollment agreement, financial aid application, transcripts, etc. An investigator from the Department will meet with you and go through your complaint in detail.
2. If you cannot come in for an interview, send a letter or call the office to request a complaint form. You must complete and sign this form and mail it to the office. Please include with it copies of all relevant documents. You should keep the originals. *You must file a complaint within two years after the alleged illegal conduct took place.* The Bureau cannot investigate any complaint made more than two years after the date of the occurrence.
3. The investigator will attempt to resolve the complaint as quickly as possible and may contact you in the future with follow-up questions. You should provide all information requested as quickly as possible, delay may affect the investigation of your complaint. When appropriate, the investigator will try to negotiate with the school informally. If the Department determines that violations of law have been committed and the school fails to take satisfactory and appropriate action, then the Department may proceed with formal charges.

***What is the Tuition Reimbursement Fund?***

The Tuition Reimbursement fund is designed to protect the financial interest of students attending proprietary schools. If a school closes while you are in attendance, prior to the completion of your educational program, then you may be eligible for a refund of all tuition expenses which you have paid. If you drop out of school prior to completion and you file a complaint against the school with the state Education Department, you may be eligible to receive a tuition refund if the State Education Department is able to provide factual support that your complaint is valid and to determine that there was a violation of Education Law or the Commissioner’s Regulations as specified in Section 126.17 of the Commissioner’s Regulations. To file a claim to the Tuition Reimbursement Fund, you must first file a complaint with the State Education Department at the address included in this catalog. The staff of the State Education Department will assist you in the preparation of a tuition reimbursement form (a sample of this form should have been provided to you upon enrollment).

***What is the tuition refund and cancellation policy?***

All schools must have a tuition refund and cancellation policy for each program included in the catalog and in the student enrollment agreement.

Read and understand the school’s policy regarding tuition refund and cancellation before you sign the enrollment agreement. If you do not understand it or are confused by the school’s explanation, get help before you sign. You may ask for assistance from the Department at the address included in this information.

***What should students know about “private school agents”?***

Private School Agents are employed by schools for the purpose of recruiting or enrolling students in the school; they are not school counselors. Private school agents cannot require a student to pay a placement or referral fee. Each school agent must be licensed by the New York State Education Department, must have an Agent identification card and must be a salaried employee of the school. School agents who cannot show an Agent Identification Card are breaking the law if they try to entice students into enrolling in a particular school or group of schools. The name(s) of the agent(s) who enrolled a student must appear on that student’s enrollment agreement. Therefore, you should write down the name of the agent who talked to you. Each student will be required to confirm the name(s) of the agent(s) when signing the enrollment agreement. A full refund shall be made to any student recruited by an unlicensed private school agent or even by a licensed agent if there is evidence that the agent made fraudulent or improper claims. To find out if you are eligible to receive a refund, you must follow the complaint procedures included in this page.

***Where can students file a complaint, file a claim to the tuition reimbursement fund, or get additional information?***

Contact the New York State Education Department at  
New York State Education Department

116 West 32<sup>nd</sup> Street, 5<sup>th</sup> Floor  
New York, New York 10001  
Attention: Bureau of Proprietary School Supervision  
(212) 643-4760

This information is provided to you by the New York State Education Department (NYSED). The NYSED regulates the operation of Licensed Private Schools and Registered Business Schools/Computer Training Facilities.

### ***Grievance Procedure***

All students are encouraged to discuss concerns, academic issues or complaints with the NYC Data Science Academy's faculty and staff. Problems involving classroom or academic matters should first be discussed with the instructor. If the issue is not resolved to the student's satisfaction, the student may escalate the matter to the School Director. The Director will make appropriate inquiries and recommend a resolution within five (5) days of receiving the grievance.

In cases where the grievance is not settled at the institutional level, the student may also contact the following Institutions as per described next in the catalog:

New York State Education Department  
116 West 32<sup>nd</sup> Street, 5<sup>th</sup> Floor  
New York, New York 10001  
Attention: Bureau of Proprietary School Supervision  
(212) 643-4760  
<http://www.acces.nysed.gov/bpss/student-rights>

### ***Students' Rights***

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their educational records.

1. Students enrolled at the NYC Data Science Academy shall have the right to inspect and review the contents of their education records, within forty-five (45) days of the day the institution receives the request for access. Students may request to review their education records by submitting a written request identifying the record(s) the student wishes to review to the Registrar. The institution will arrange for access and notify the student of the time and place where the records may be inspected.
2. Parental access to a student's record will be allowed by the NYC Data Science Academy without prior consent if: (1) the student has violated a law or the institution's rules or policies governing alcohol or substance abuse, if the student is under 21 years old; or (2) the information is needed to protect the health or safety of the student or other individuals in an emergency.
3. A student's education records are defined as files, materials, or documents, including

those in electronic format, that contain information directly related to the student and are maintained by the institution, except as provided by law. Access to a student's education records is afforded to school officials who have a legitimate educational interest in the records. A school official is defined as a person employed or engaged by the institution in an administrative, supervisory, academic or support staff position (including law enforcement unit and health staff); a person or company (including its employees) with whom the school has contracted (such as an attorney, auditor, consultant or collection agent); a trustee serving on a governing board; or a person assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record to fulfill his or her professional responsibility or commitment to the school.

4. Students may request that the institution amend any of their education records, if they believe the record contains information that is inaccurate, misleading or in violation of their privacy rights. The request for change must be made in writing and delivered to the Director, and it must identify the part of the record the student wants changed and have the reason for the requested change stated fully.
5. Directory information is student information that the institution may release to third parties without the consent of the student. The NYC Data Science Academy has defined directory information as the student's name, address(es), telephone number(s), e-mail address, birth date and place, program undertaken, dates of attendance, honors and awards, photographs and credential awarded. If a student does not want his or her directory information to be released to third parties without the student's consent, the student must present such a request in writing to the Registrar within 45 days of the student's enrollment or by such later date as the institution may specify. Under no circumstances may the student use the right to opt out to prevent the institution from disclosing that student's name, electronic identifier, or institutional e-mail address in a class in which the student is enrolled.
6. The written consent of the student is required before personally identifiable information from educational records of that student may be released to a third party, unless the disclosure is otherwise allowed under an express FERPA exception to disclosure or is required by law.
7. A student who believes that the NYC Data Science Academy has violated his or her rights concerning the release of or access to his or her records has the right to file a complaint with the U.S. Department of Education. The name and address of the office that administers FERPA is:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Avenue, SW, Washington, DC  
20202-5901

### ***Notice of Withdrawal***

The failure of a student to notify the Director of withdrawal in writing may delay refund of tuition pursuant to Section 5002 of the Education Law.

## **Appendix B: Occupational Education Data Survey (OEDS)**



## OEDS 2022-23 Reporting Period

ALL 3 SECTIONS MUST BE SUBMITTED (Place N/A through each section which does not apply to your school)

SECTION 1: CURRICULUM ADMISSIONS, ENROLLMENT AND GRADUATES									
<i>Complete a separate page for each curriculum, see instructions. Duplicate this page as needed.</i>									
Institution ID: 2041	School Name & Address: NYC Data Science Academy 500 8th Avenue, Suite 905, New York, NY 10018								
Curriculum Code: <b>CU 8893</b>	Program Name: Data Science Bootcamp - Online					Program Hours: 488			
Line #		Diploma			ATB			All	
		Full-time	Part-time	Total	Full-time	Part-time	Total	Total (C)+(F)	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	
<b>Part 1: Admissions: Applications, Acceptances &amp; Denials July 1, 2022 through June 30, 2023</b>									
Total Applications	1	98	102	198	N/A	N/A	N/A	198	
Applications Accepted	2	34	24	58	N/A	N/A	N/A	58	
Applications Denied	3	62	78	140	N/A	N/A	N/A	140	
<b>Part 2: Current Year Enrollment July 1, 2022 through June 30, 2023</b>									
New Enrollment	4	34	24	58	N/A	N/A	N/A	58	
Still Enrolled / Continuing from previous year	5	17	18	35	N/A	N/A	N/A	35	
Total Students in this program during this reporting year	6	51	42	93	N/A	N/A	N/A	93	
<b>Part 3: Status of 2022-23 Enrollment as of June 30, 2023</b>									
Still Enrolled/Continuing into the next reporting period (2023-2024)	7	25	18	43	N/A	N/A	N/A	43	
Noncompleters	8	2	9	11	N/A	N/A	N/A	11	
Graduates	9	24	15	39	N/A	N/A	N/A	39	
<b>Part 4: Graduate Follow-up</b>									
Employed in:	Related Field	10	19	12	31	N/A	N/A	N/A	31
	Slightly Related Field	11	0	0	0	N/A	N/A	N/A	0
	Unrelated Field	12	0	0	0	N/A	N/A	N/A	0
	Military	13	0	0	0	N/A	N/A	N/A	0
Seeking Employment	14	4	2	6	N/A	N/A	N/A	6	
Pursuing Additional Education	15	0	0	0	N/A	N/A	N/A	0	
Other, Unavailable for Employment	16	1	1	2	N/A	N/A	N/A	2	
Status Unknown	17	0	0	0	N/A	N/A	N/A	0	
Total Graduates July 1, 2022 - June 30, 2023	18	24	15	39	N/A	N/A	N/A	39	

## OEDS 2021-22 Reporting Period

ALL 3 SECTIONS MUST BE SUBMITTED (Place N/A through each section which does not apply to your school)

### SECTION 1: CURRICULUM ADMISSIONS, ENROLLMENT AND GRADUATES

Complete a separate page for each curriculum, see instructions. Duplicate this page as needed.

Institution ID: 2041	School Name & Address: NYC Data Science Academy 500 8th Avenue, Suite 905, New York, NY 10018							
Curriculum Code: <b>CU 8892</b>	Program Name: Data Analytic Bootcamp				Program Hours: 488			
	Line #	Diploma			ATB			All
		Full-time	Part-time	Total	Full-time	Part-time	Total	Total (C)+(F)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)
<b>Part 1: Admissions: Applications, Acceptances &amp; Denials July 1, 2021 through June 30, 2022</b>								
Total Applications	1	22	N/A	22	N/A	N/A	N/A	22
Applications Accepted	2	10	N/A	10	N/A	N/A	N/A	10
Applications Denied	3	12	N/A	12	N/A	N/A	N/A	12
<b>Part 2: Current Year Enrollment July 1, 2021 through June 30, 2022</b>								
New Enrollment	4	11	N/A	11	N/A	N/A	N/A	11
Still Enrolled / Continuing from previous year	5	4	N/A	4	N/A	N/A	N/A	4
Total Students in this program during this reporting year	6	15	N/A	15	N/A	N/A	N/A	15
<b>Part 3: Status of 2021-22 Enrollment as of June 30, 2022</b>								
Still Enrolled/Continuing into the next reporting period (2022-2023)	7	7	N/A	7	N/A	N/A	N/A	7
Noncompleters	8	0	N/A	0	N/A	N/A	N/A	0
Graduates	9	8	N/A	8	N/A	N/A	N/A	8
<b>Part 4: Graduate Follow-up</b>								
Employed in:	Related Field	10	8	N/A	8	N/A	N/A	8
	Slightly Related Field	11	7	N/A	7	N/A	N/A	7
	Unrelated Field	12	0	N/A	0	N/A	N/A	0
	Military	13	0	N/A	0	N/A	N/A	0
Seeking Employment	14	0	N/A	0	N/A	N/A	N/A	0
Pursuing Additional Education	15	0	N/A	0	N/A	N/A	N/A	0
Other, Unavailable for Employment	16	0	N/A	0	N/A	N/A	N/A	0
Status Unknown	17	0	N/A	0	N/A	N/A	N/A	0
Total Graduates July 1, 2021 - June 30, 2022	18	15	N/A	15	N/A	N/A	N/A	15

### OEDS 2022-23 Reporting Period

ALL 3 SECTIONS MUST BE SUBMITTED (Place N/A through each section which does not apply to your school)							
SECTION 2: COURSE ENROLLMENT, GRADUATES, AND NONCOMPLETERS							
Complete this section for approved COURSES (less than 100 hours, unless curriculum is under the authority of another State agency. I.e. HHA, Security Guard & Waxing Technician). If courses are neither approved nor offered by your school, you do not need to complete this section.							
School Name & Address: 500 8th Ave Suite 908, New York, NY 10018						Institution ID: 2041	
Course Name	Course Code	Course Clock Hours	Number of Students Enrolled from previous reporting period (2021-2022)	Number of New Students Enrolled July 1, 2022 through June 30, 2023	Number of Course Noncompleters July 1, 2022 through June 30, 2023	Number of Course Graduates July 1, 2022 through June 30, 2023	Number of Students Continuing Enrollment into next reporting period
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Big Data with Amazon Cloud, Hadoop-Spark and Docker	6334	30	0	0	0	0	0
Data Science with Tableau	4520	20	0	0	0	0	0
Machine Learning in Finance	4910	23	0	1	0	1	0
Data Science with Python: Data Analysis and Visualization	1218	20	0	12	0	12	0
Introductory Python	2332	20	0	13	0	13	0
Data Science with Python: Machine Learning	1218	20	0	7	0	7	0
R for Business Analysts	4908	20	0	0	0	0	0
Data Science with R: Data Analysis and Visualization	1218	35	0	10	0	10	0
Data Science with R: Machine Learning	1218	35	0	0	0	0	0
Deep Learning	4911	30	0	0	0	0	0
Intro to Data Science with R	3046	14	0	0	0	0	0
Introduction to Blockchain Technology with Ethereum	5757	30	0	0	0	0	0
R for Business Analysts	4908	20	0	0	0	0	0
Designing and Implementing Production Machine Learning Systems (MLOps)	11112	20	0	10	0	10	0
Natural Language Processing for Production (NLP)	11096	20	0	3	0	3	0
Storytelling with Data Visualization	2947	25	0	0	0	0	0

