Big Data has emerged as the driving force behind critical business, organizational, and public policy decisions. The MS in Data Science degree program helps students learn how to mine and link information with the intention of uncovering patterns, relationships, and trends in everyday occurrences. The program combines information management, systems thinking, quantitative methods, and data warehousing to help organizations predict and evaluate best practices.

The MS in Data Science program prepares graduates for a variety of technical and managerial positions, such as Data Scientist, Business Intelligence Analyst, Knowledge and Informatics Engineer, Data Analyst, Data Mining Engineer, and Data Warehousing Manager.
Students In The Program Will:

- Develop qualitative insights from quantitative data and present their work in a business context.
- Create descriptive and predictive models that help organizations make better strategic and operational decisions.
- Discover complex relationships in large and disparate data sets using exploratory visualization.
- Work with tools such as R, Python, MongoDB, Hadoop, Tableau, and D3 to explore a variety of relevant issues in marketing, sales, finance, healthcare, and social networks.

Curriculum

7 Core Courses (21 Credits)  
3 Elective Courses (9 Credits)

Sample Courses

- Simulation and Modeling Techniques
- Knowledge and Visual Analytics
- Predictive Analytics
- Web Analytics
- Machine Learning and Big Data
- Data Acquisition and Management

Admissions Requirements

Applicants must possess a bachelor’s degree from an accredited institution with a minimum GPA of 3.0 on a 4.0 scale. Applicants must be proficient in at least one high-level computer language (e.g., Java or C++) and be comfortable with advanced mathematics, such as statistics, linear algebra, and calculus. Applicants are required to write a personal statement, upload a resume, and provide two letters of recommendation. An individual interview may be necessary.

The MS in Data Science was recently ranked #27 worldwide in the Online Course Report’s 50 Best Master’s in Data Science list.

The CUNY School of Professional Studies is regionally accredited through the Middle States Commission on Higher Education.

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