

In today's data-driven economy, there is a strong demand for technical skills in the field which is loosely called "Data Science". Research done by Glassdoor, a leading recruiting company, finds that "Data Scientist" is the Best Job in America for 2019, and the average salary of a data scientist is \$120,000.

In practice, not all technical professionals working with data are doing the same job, and there is a need for a variety of different skills. NJIT@JerseyCity offers part-time graduate-level educational programs, both credit-bearing and non-credit training, distinguishing between three types of data professionals. The distinction is based on the technical depth of the job and the background required.

According to The Princeton Review, NJIT is one of the nation's best colleges for students seeking a superb education with great career preparation and at an affordable price.

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**Data Analyst:** A professional whose job is to work with large data sets with a focus on data access, reporting, basic analysis and visualization. We assume no prior background in math, programming or computer science.

**Data Engineer:** A professional whose job is to manage the infrastructure for big data storage and rapid access and pipeline processing of large data sets, including preparing the data for analysis. We assume some basic programming and computer science skills.

**Data Scientist:** This is probably the most technically sophisticated job - a professional who creates and applies machine learning models and predictive methods to large data sets to extract actionable and valuable information. We assume working computer science skills and mathematical maturity.

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NJIT@JerseyCity's flagship offering is a full two-year part-time MS program for Data Scientists (called "Data Science"). In addition, NJIT@JerseyCity offers a two-semester graduate Certificate program for Data Analysts (called "Data Mining") and a two-semester graduate Certificate program for Data Engineers (called "Essentials of Big Data").

The programs are designed so that qualified holders of a Certificate can "upgrade" their education by continuing to the MS program, while receiving full credit for their Certificate coursework.

All programs are part-time, designed for the convenience of working professionals looking to expand their expertise and enhance their career options. Each academic course bears 3 credits, taught over a 15-week semester at a single weekly session of 3 hours (typically 6pm-9pm). The courses involve also homework assignments, a midterm exam and a final exam.

NJIT@JerseyCity also offers a series of 5-week non-credit boot camps which more intense (3 hours daily, Mon-Sat), addressing the same topics as the credit-bearing programs.

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