Data Science

The Department of Data Science is the newest addition to the Ying Wu College of Computing. Founded in 2021, it offers a B.S. Degree in Data Science. This is a new degree program that responds to a strong demand from employers for trained Data Scientists. Data is revolutionizing most industries and B.S. graduates in Data Science command high starting salaries.

Data Science combines powerful methods from Computer Science, Statistics, Artificial Intelligence and Machine Learning into a unique new blend of techniques for deriving valuable insights from Big Data. Data Science is an ideal choice for students who are interested in applying data processing methods to ever larger and more varied real-world data sets, including image, video, natural language and speech data that go substantially beyond traditional text and table data to solve real-world problems. The Department of Data Science closely collaborates with the Department of Mathematical Sciences and the Department of Computer Science and students can take advantage of many computer science and mathematical sciences offerings. The Department of Data Science offers its own two-semester capstone projects that are executed with industrial sponsors. Students also can get involved in state-of-the-art research projects at the NJIT Institute for Data Science, where top notch scientists work with users to develop data-driven technologies to innovate the way the world works and lives.

B
Bader, David, Distinguished Professor

D
Dasgupta, Aritra, Assistant Professor
Du, Mengnan, Assistant Professor

G
Gaikwad, Nikita, Lecturer
Geller, James, Professor

I
Islam, Akm, University Lecturer

L
Li, Daming, Senior University Lecturer

M
Monogioudis, Pantelis, Professor of Practice

P
Pethkar, Kaustubh Lecturer
Phan, Hai, Assistant Professor

R
Renda, Michael, Professor of Practice
Roshan, Usman, Associate Professor

W
Wang, Lijing, Assistant Professor
Wu, Chase, Professor

X
Xu, Mengjia

Y
Yusuf, Fatima, University Lecturer
Zhang, Shuai, Assistant Professor

Programs


DS 340. Fundamentals and Principles of Data Science. 3 credits, 3 contact hours (3;0;0).
Prerequisites: CS 114 and (MATH 333 or MATH 341) with a grade C or better. Fundamentals and principles of data science familiarize students with the theories and techniques for data representation, manipulation, analysis, visualization, and interpretation. Topics include introduction to data preparation and preprocessing, data mining, anomaly detection, machine learning, statistical learning, data analysis and visualization, large language models, ethics, and popular data science tools and systems. Hands-on work will include Python with Pandas coding.