Data is the foundation of the digital age. Many industries generate massive data sets on a daily basis, and thus are in urgent need of professionals who can explore the data sets using data processing tools and present relevant characteristics in an explicit and understandable way. Mastering modern data analysis tools and techniques is crucial for Computer Science students to meet the requirement of the fast-growing data science and analytics job market.

Course Description:

This course aims at using multiple hands-on projects to introduce data handling tools and techniques, practice various ways of extracting and presenting important information about the data, and help students become familiar with the computational thinking process that establishes links between a research problem and a relevant dataset.

Prerequisites: CMP-232 Discrete Mathematics, CMP-168 Programming II

Textbook:

*Python for Data Analysis, 2nd Edition by William McKinney*
Publisher: O'Reilly Media