Data Science, M.S.

Learning Outcomes

Graduates will be able to:

• understand the fundamental concepts in probability and statistics that underlie commonly used data science algorithms;
• write efficient Python and R codes for data processing and data wrangling (data storage, access, and management) and computing for data analysis and modeling;
• use visualization techniques to display salient data features;
• use data technologies to process complex data;
• correctly and effectively implement appropriate algorithms for learning with data;
• identify and criticize inappropriate/unethical uses of data and/or algorithms;
• acquire effective communication skills for disseminating findings; and
• work with data stakeholders to help collect and analyze data.