University of Southern California
VITERBI SCHOOL OF ENGINEERING

Master of Science in Computer Science (Data Science)
Program Learning Objectives

The purpose of the USC Viterbi School of Engineering Master of Science in Computer Science (Data Science) program is to prepare students for high level professional employment in any sector of computer science that incorporates data analysis techniques; or to pursue advanced graduate studies focusing on related problems in the field. Graduates might pursue computer science-related employment or advanced graduate study in diverse real-world domains including energy, the environment, health, media, medicine, and transportation.

- Upon completion of the USC Master of Science in Computer Science (Data Science) program, students will be able to demonstrate broad understanding of data analysis techniques in computer science, including storing, accessing, analyzing and visualizing large, heterogeneous and real-time data.

- Upon completion of the USC Master of Science in Computer Science (Data Science) program, students will be able to apply critical principles and skills pertinent to MSCS (Data Science) duties in their employment and professional practice.

- Upon completion of the USC Master of Science in Computer Science (Data Science) program, students will be able to work in diverse global contexts and apply universally respectful and globally centric practices pertinent to MSCS (Data Science) duties in international and domestic contexts.

- USC students enrolled in the MSCS (Data Science) program will demonstrate understanding of contemporary research questions, results, and areas of application relating to the analysis of data in a computer science context.