CS 185C-04: Advanced Practical Computing Topics
(Python Data Analytics & Prediction)
Tue & Thur 7:30-8:45PM Room MH 422

COURSE TOPICS

• Introduction to
  ✓ The data analysis process
  ✓ Quantitative & qualitative data analysis
  ✓ When data becomes information, and when information becomes knowledge
  ✓ Machine learning and prediction

• Using Python, Pandas, numpy, scipy, and matplotlib to carry out data analysis and data visualization

• Using the scikit machine learning package along with Pandas, numpy, and scipy to make predictions

• Students completing the course will have a sound understanding of how Python can be used to carry out data analysis and to make predictions in life science and business intelligence contexts.

PREREQUISITES

• Any intro Python programming course + knowledge of data structures. CS146 (Java) students should have equivalent intro Python knowledge.

• Instructor consent

PROPOSED TEXTBOOK

All course & reference material will be provided.

WHO SHOULD ENROLL?

Anyone who wants a solid introduction to using Python to analyze complex and large volumes of data, and to make predictions using machine learning.

HOW TO ENROLL

Current SJSU Students – Log in to your MySJSU account to search for the course number and section printed above.

Others – Go to the SJSU Open University web page (http://ou.sjsu.edu) and click on the link: How to Register for an On-Site Class.

NOTE: Open Univ. Fall 2016 courses will be visible at the above URL no later than early August 2016.