Welcome to Data 8!

A photographer from the Division of Data Sciences will be present at the beginning and end of class to take photos for an article on Data 8 that will appear on the Division's website.

If you prefer not to be photographed, please sit on the far left side as you enter the auditorium.





Lecture 1

Introduction

Welcome to Data 8



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data8.org/sp20/staff

Data Science

What is Data Science?

Learning about the world from data using computation

Exploration

- Identifying patterns in data
- Uses visualizations

Inference

- Using data to draw reliable conclusions about the world
- Uses statistics

Prediction

- Making informed guesses about unobserved data
- Uses machine learning

Connector Courses

- Data science is driven by applications
- Every data-driven subject brings new challenges
- Most connectors are small, independent courses taught by Berkeley faculty who are excited to share their expertise
- Three connectors (CS 88, Stat 88, Stat 89A) go deeper into the theory and computation

http://data8.org/connector

Spring 2020 Connectors - Part 1



Spring 2020 Connectors - Part 2





Data 88-1Language Models, Text Analysis

DATA 88-3 Economic Models

DATA 88-2Sports Analytics

DATA 88-4Statistical Genomics

Course Structure

Course Website

http://data8.org/sp20

Parts of Data 8

- Lecture will be recorded and webcast, but it's better to attend
- Textbook is free, online, and written by Data 8 instructors
- Weekly lab assignments (<u>lab starts this week</u>)
 - Check your inbox for your lab assignment!
- Weekly homework assignments & three projects
 - Graded within about 1 week
- (U)GSI office hours Monday-Friday 12-5 (starts next week)
- Midterm on Friday, March 13, evening (exact time TBD)
- Final exam on Tuesday, May 12, 3-6PM (group 7)

Details are in data8.org/sp20/policies.html

Collaboration

Asking questions is greatly encouraged

- Discuss questions with each other (except exams)
- Submit lab assignments individually; discuss in lab
- Submit homework individually, but feel free to discuss
- Submit projects individually or with a partner from your lab

The Limits of collaboration

- Don't share solutions with each other (except project partners)
- Copying or other dishonesty will result in severe penalties

Getting Help

- Ask a friend
- Ask on Piazza
- Come to office hours

Course Policies

Learning

Community

Course Staff

http://data8.org/sp20/policies.html

Example

(Demo)