UCSD

DSC 10

Winter 2019

Lecture 0

Introduction

Dr. Colin Jemmott
(I prefer Colin)

Pronouns: he, him

Books I like: https://github.com/jemmott/books

Data Science (to me): deeply understanding the meaning of your data, analyzing it with honesty and creativity, and communicating results clearly.

Email: cjemmott@ucsd.edu (but check website & Piaza first)

Way too much info at https://www.cjemmott.com/
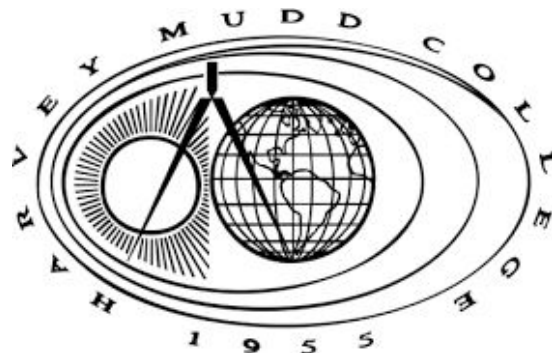
My Path to Data Science

B.S. in Engineering

M.S. in Electrical Engineering
Ph.D. in Acoustics

Senior Acoustical Scientist

???

Data Scientist!

Data Science

What is Data Science?

Drawing useful conclusions from data using computation

- **Exploration**
  - Identifying patterns in information
  - Uses visualizations
- **Inference**
  - Quantifying whether those patterns are reliable
  - Uses randomization
- **Prediction**
  - Making informed guesses
  - Uses machine learning

Course Website

https://dsc10.com

Does your iClicker work?

A. Yes!
B. I forgot my iClicker.
C. I can't get my iClicker to work.
D. What is an iClicker?
E. This joke is not funny.

Why are you here?

A. Want to do data science for a living
B. Curious about data science
C. Fulfil a requirement / get into upper division
D. I am in the wrong room

Major?

A. Data Science
B. Computer Science / Math CS
C. Other STEM
D. Not STEM
E. Underwater Acoustics

Statistics experience?

A. None
B. Beginning
C. Intermediate
D. Advanced
E. My name is Pierre-Simon Laplace

Programing experience?

A. None
B. Beginning
C. Intermediate
D. Advanced
E. 01001001 00100000 01100001 01101101 00100000
   01100001 00100000 01100011 01101111 01101101
   01110000 01110101 01110100 01100101 01110010

Example

(demo)