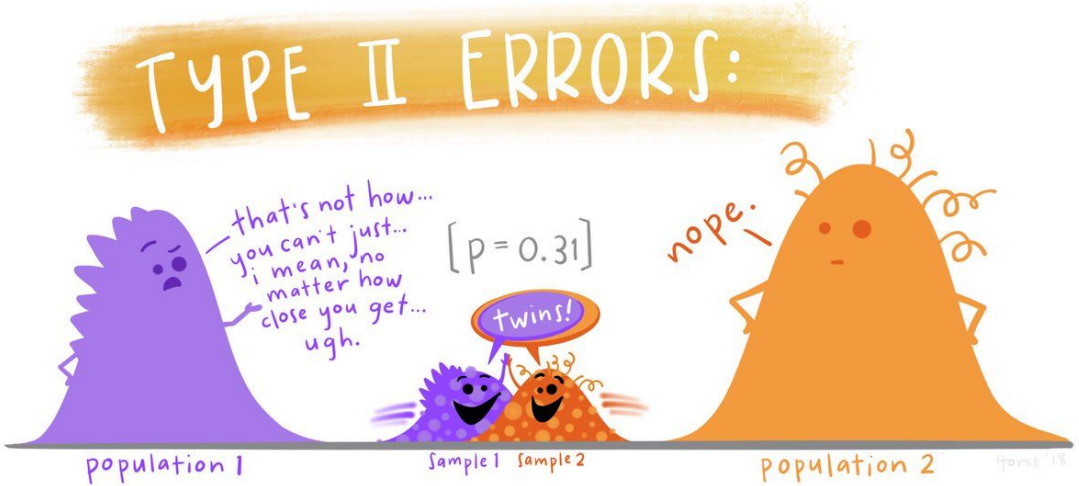
CPSC 293

Chelsea Parlett-Pelleriti

Course Admin

Who is this person?

Prof. Chelsea Parlett-Pelleriti
(she/her)



Who is this person?

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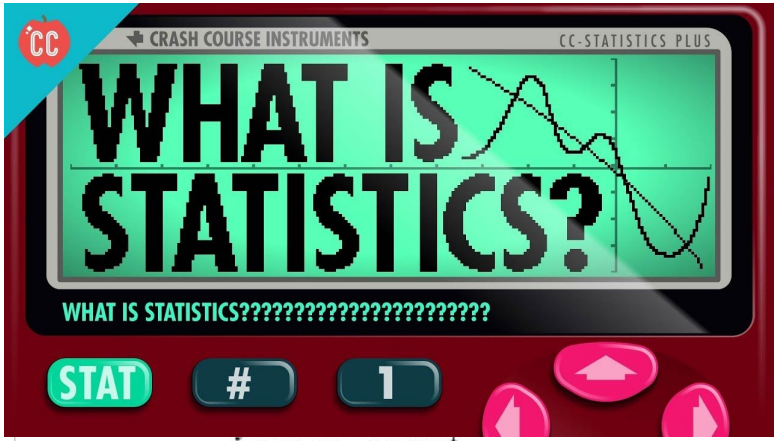
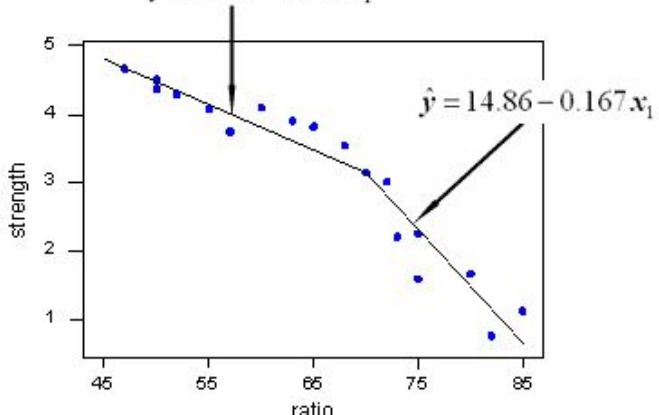




You!

- Name (preferred)
- Type of Data you’re interested in

What to Expect

- GitHub
- BlackBoard
- Videos
- In Class
- Homework
- Tests
- Projects
- Streaming Reviews
- Content (we'll get to that in a sec)

Grade Breakdown

- **Homeworks** (25%)
- **Quizzes** (15%; Weekly, drop 2 lowest)
- **Exam 1** (20%; Small Project + In Class)
- **Exam 2** (20%; Small Project + In Class)
- **Final Project** (20%; Project + Presentation)

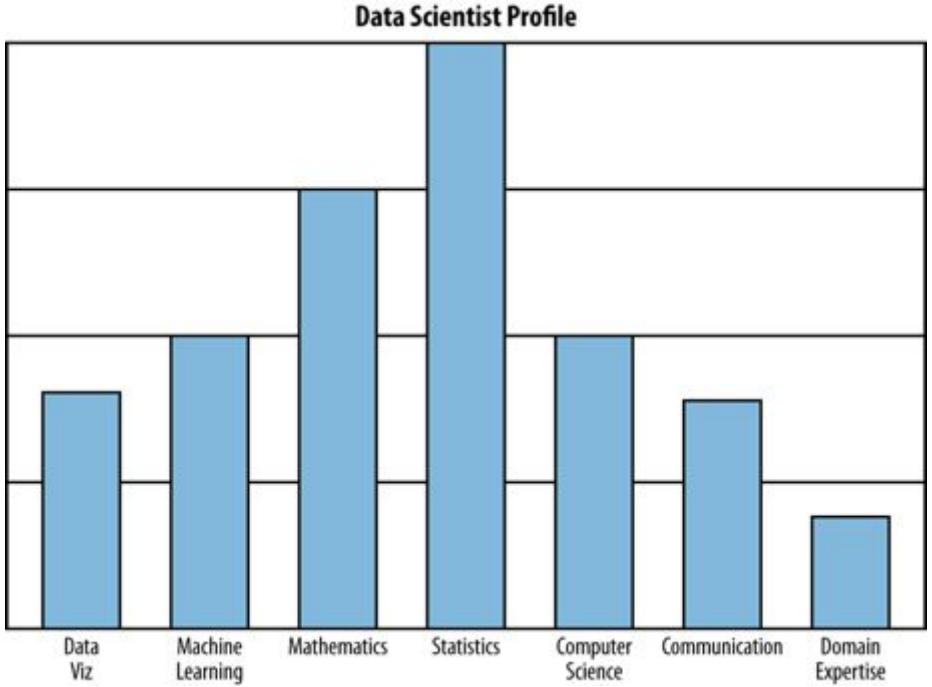
Late Policies

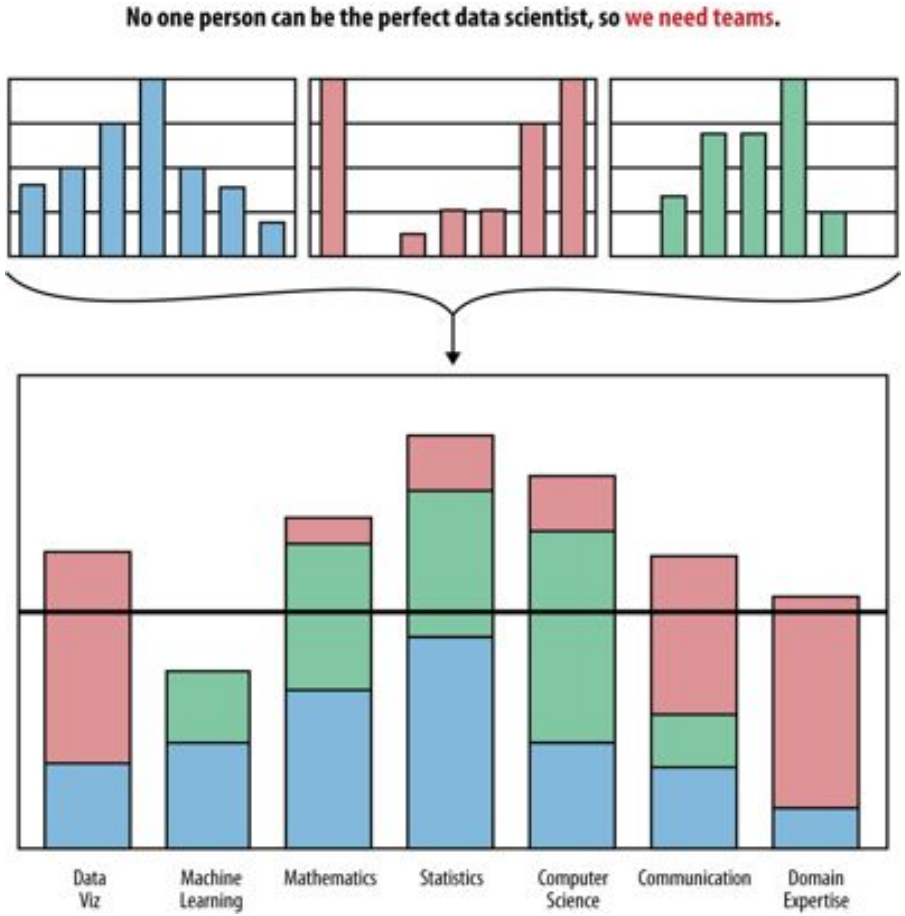
- Three 24-hour extensions, no questions asked.
- You MUST inform me BEFORE the assignment/project is due.
- No late work other than this.

Misc. Resources

- Chapman Tutoring Center
- Test Anxiety
- StatQuest Videos
- Pandas Tutorials
- Plotnine Tutorials
- sklearn Tutorials
- Keras Tutorials
- Jupyter Notebooks download
- Machine Learning Flashcards (Chris Albon)
- Review Stream

What is Data Science?



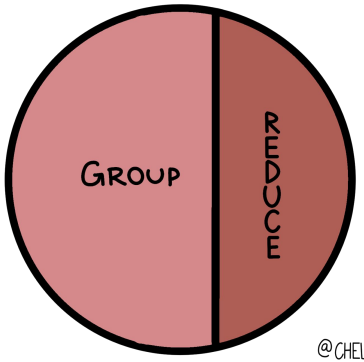


Source: Doing Data Science (O'Neil & Schutt, 2013).


New York City Subway Diagram
Stations and connections
always stops
always stops, except for rush hours, peak direction
weekdays only
weekdays, peak direction only
rush hours only
nights and weekends only
service in one direction only
no regular service
transfer
out-of-station transfer
regional rail connection
wheelchair access
Subway Services
7 Avenue Local
7 Avenue Express
7 Avenue Express
Lexington Avenue Express
Lexington Avenue Express
Lexington Avenue Local
42 Street-Flushing Local
8 Avenue Express
8 Avenue Local
8 Avenue Local
6 Avenue Express
6 Avenue Express
6 Avenue Local
6 Avenue Local
Crosstown Local
Nassau Street Local
Nassau Street Express
14 Street-Canarsie Local
Broadway Express
Broadway Express
Broadway Local
Broadway Local
Shuttle
SIR Staten Island Railway
The Bronx
Manhattan
Queens
Brooklyn
Staten Island
Harlem River
East River
Hudson River
Long Island Sound
New York Harbor
Jamaica Bay
Atlantic Ocean

Algorithms

Simplify



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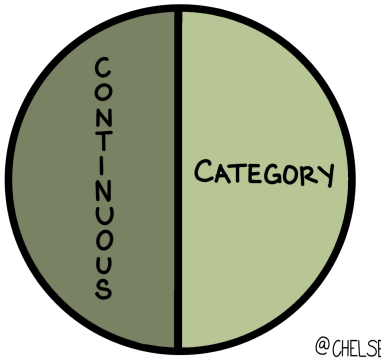
Predict



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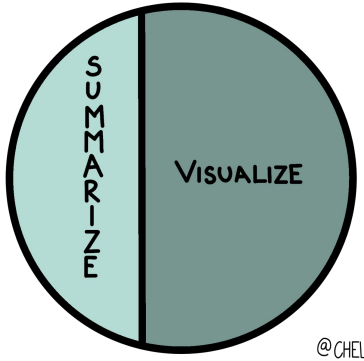
Explore



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Are you doing Prediction or Inference?

Prediction -- How close are your guesses about data points to the true values?

Inference -- How close are your guesses about parameters to the true values?

What information is in your data?

Questions about Data Science?