

Ryan Don

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Projects

NYPD Allegations

- Built a **decision tree model** that predicted the outcomes of allegations placed against the NYPD
- Created a baseline model with an accuracy of **72%**, added self-engineered features to the baseline and improved the accuracy by **8%**
- Evaluated the fairness of the model for old vs young victims using a permutation test, null hypothesis is that recall score for young and old victims are roughly the same, obtained a p-value of **.025**

Cooking

- Predicted whether or not a user cooked a recipe using a **logistic regression** model, used **Jaccard and Cosine similarity** as features, got an accuracy score of **70%** when the test data was 50% cooked 50% uncooked
- Used a **Ridge regression** model to predict the time it takes to cook a recipe using features that I engineered (bag of words, popularity binary vector)

Experience

Instructor

Young Engineers e2 • San Diego, CA
06/2020 - 09/2021

- Teach elementary to middle school students various subjects in STEM
- Ensure classroom participation through creative learning techniques

Project Team Member

Diversity in Data Science @ UCSD • La Jolla, California
03/2021 - 06/2021

- Used Pandas to research incarceration data and show how CA state laws affected incarceration rates in California since 1980
- Created visualizations using Flourish

Project Team Leader

Diversity in Data Science @ UCSD • La Jolla, California

- Researching how important race and gender are when it comes to traffic stops depending on the city
- Manage 5 team members and assign specific roles depending on their experience

Skills

- Python, Java, R, SQL, Postgres SQL

Education

Data Science

University of California, San Diego
06/2023

GPA: 3.5

Relevant courses: Web Mining and Recommender Systems; Data Structures and Algorithms