

Killen Jones

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Education

Master's of Science in Applied Data Science - University of Michigan, Ann Arbor, MI

Jan 2023 - May 2024

Focus: Machine Learning Methods, Data Manipulation | GPA: 3.96/4.00

Bachelor's of Science in Psychology - University of Houston, Houston, TX

Aug 2017 - May 2021

Dean's Honor List | GPA: 3.91/4.00

Experience

Hack for LA (311 Data Project) - Fullstack Engineer

August 2022 - January 2023

- Worked with the tech lead to create a caching system that reduced data loading times when rendering requests.
- Collaborated with product and design members to develop and implement loading animations during data retrieval, new endpoints to the site's backend, and new website designs to prepare for the next launch of the product website.
 - Utilized React, JavaScript, Python, FastAPI, Docker, GitHub

Skills

Python, NumPy, Pandas, Scikit-learn, PyTorch, NLTK, Matplotlib

Machine Learning Methodologies, Deep Learning

Data Cleaning, Analysis, and Visualization

SQL, PostgreSQL, ETL

Git, Github

Projects

Review Sentiment Analysis

- Worked with a team to use supervised & unsupervised learning methods to analyze and predict Steam game reviews' sentiment.
- Used supervised methods (logistic regression, random forest, SVM, multinomial naive Bayes) to predict review sentiment.
 - Achieved F1 score of 0.784 and Accuracy of 0.803 with Random Forest
- Used unsupervised methods (LSA and LDA) to extract the language features most predictive of review sentiment.

College Football Player Transfer Probability

- Created a website interface that uses supervised models (logistic regression, random forest, gradient boosting) to predict the probability that any given player will enter the transfer portal.
 - Achieved Recall and Accuracy scores of 0.7 and above for deployed models compared to a dummy model score of 0.5 or less.
- View the [report](#) made for the project
- Watch the demo [video](#)