

Killen Jones

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Education

Master 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 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

- Utilized Python and JavaScript in conjunction with FastAPI and React to aid in improving site functionality of the 311 Data website.
- Created a caching system that reduced loading times when rendering new and recent data requests pulled from storage, reducing site lag for users when interfacing with the interactive map.
- Collaborated with product and design members to develop and implement loading animations during data retrieval, add new endpoints to the site's backend, and new website pages and designs in preparation for the next launch of the product website.

Skills

- **Programming:** Python, JavaScript, HTML, Git, OOP
- **Machine Learning:** Python (pandas, matplotlib, scikit-learn, numpy, PyTorch, nltk)
- **Data Science & Data Management:** PostgreSQL, ETL, Data science (cleaning, visualization, modeling, analysis, wrangling), Experimental design, Statistics, Causal inference, Spark, Hadoop

Projects

User 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](#)