Keeven Sivanathan

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EDUCATION

University of San Francisco, San Francisco, CA
Bachelors in Data Science — August 2017 - May 2021

University of San Francisco, San Francisco, CA
Masters of Information Systems — Graduation: December 2022

NOTABLE PROJECTS

Analytics Dashboard for a Podcasting Studio *(https://yourmomsanalytics.herokuapp.com/)* — August 2022

- Built and deployed a dashboard to showcase a studio's best performing podcasts based on views, comments and likes.
- Utilized the YouTube Data API to extract data using a Python script.
- Applied Natural Language Processing techniques to clean and organize raw data.
- Consolidated data from multiple sources into a readable text file.
- Implemented a responsive web design to support a variety of desktop screen options.
- Designed and built interactive visualizations to create intuitive graphs for technical and non-technical audiences.

Japanese Animated Film Recommendation System — July 2022

- Leveraged Pearsons R Correlation to recommend users suggestions based on similar titles.
- Utilized Collaborative Filtering to suggest recommendations based on a users previous rating history.
- Visualized the distribution of ratings to identify where the most common outcomes lie on a 1-10 scale.
- Identified which format of animation is most popular with the target audience.

Exploratory Data Analysis on Unicorn Companies — June 2022

- Identified the industries that have had the most companies reach a valuation of $1 billion dollars.
- Built visualizations to show distribution of Unicorn companies across the globe.
- Identified the period in time where the frequency of Unicorn companies was at its peak.
- Determined the leading Unicorn industries and cities in the United States, China and India.

Movie Revenue Prediction using Regression — May 2022

- Implemented statistical modeling tools like regression models and optimization techniques to predict revenue of a movie.
- Evaluated R^2 values to determine which model had the highest predictive accuracy.
- Implemented NLP technique Stemming in order to simplify and summarize movie reviews.
- Identified features that are most important in generating high movie revenues which are number of votes a movie receives, the budget allocated and if it belongs to a franchise.

Heart Disease Prediction using Classification — April 2022

- Utilized classification models such as Logistic Regression and Decision Trees to predict outcomes, using a grid search to tune the hyper-parameters to obtain the best performing model.
- Conducted exploratory data analysis to gain insight of the data, resulted in identifying the factors that are likely to increase the risk of heart disease.
- Interpreted box-plots and histograms to identify outliers within the dataset.
- Evaluated that cigarettes smokers are 7% more likely to contract heart disease compared to heavy drinkers.

TECHNICAL SKILLS / TECHNOLOGIES

- **Languages:** Python, Javascript, R, Java, SQL
- **Python Libraries:** Pandas, NumPy, sk-learn, matplotlib, plotly, seaborn
- **Website Design/Data Visualization:** HTML/CSS, d3.js, p5.js, Tableau
- **Microsoft Office Suite:** Powerpoint, Excel, Word, Office
- **Others:** Git, Heroku, VSCode