Max Vu

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DATA SCIENTIST

Data Scientist with a background in extracting, analyzing, and modeling data. Seeking a collaborative work environment where data engineering and data analysis skills can provide the business intelligence to support strategic decision making.

TECHNICAL SKILLS

General: Data Cleaning, Data Modeling, Data Visualization, Machine Learning, ETL Pipelines
Languages: R, Python, SQL, PostgreSQL
Version Control / Project Management: Git, Jira, Confluence
Visualization: RShiny, Tableau, Power BI, HTML, CSS
Related Skills: Microsoft Excel, UNIX shell scripting, Jupyter Notebook, Technical Writing

WORK EXPERIENCE

Kaiser Permanente (Oakland, CA)
Data Management Intern, June 2022 – November 2022
Worked with a team of developers to analyze and report on healthcare provider data.

- Built an automated ETL pipeline to extract provider data from healthcare company APIs.
- Cleaned, validated, and analyzed data to compute summary statistics of where different providers are located throughout regions of the US.
- Created a web app that showcased summary statistics and an interactive map of providers to present in a technical demonstration to department managers.
- Empowered the department to make better strategic business decisions by providing a better understanding of how providers are spread throughout the US.
    - My project's data will support business decisions such as expanding coverage to new areas, or reinforcing services in areas that require more support.

EDUCATION

Bachelor of Arts, Data Science (2022)
UC Berkeley, Berkeley, CA

PROJECTS

Movie Metrics, January 2023 – Present

- Created a web app that generates a summary of a user's movie preferences (favorite genre, director, actor, actress, etc.), used IMDB datasets as source.
- Coded the web app to display pictures of the user's favorite director/actor/actress, used TMDB's API to download and upload the images.

NBA Hall of Fame Predictor, October 2022 – December 2022

- Used machine learning to predict which players will be inducted into the Hall of Fame based on their stats and accolades, used NBA's official API as the data source.
- The final model had 99.8% accuracy, 97.3% recall, and 100% precision.
- By comparing different models, it became apparent that "number of All Star appearances" was the most significant accolade that could be used for prediction.
    - The model predicted that Clyde Drexler (10 All Star appearances, 1 championship) had a 99.6% chance of induction, while Robert Horry (0 All Star appearances, 7 championships) had a 1.2% chance of induction.
    - This demonstrates that number of All Star appearances is a far better indicator of Hall of Fame induction than number of championships.