Samuel Edwards

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EDUCATION

University of California, Berkeley *08/2020 - 05/2024*
Bachelor of Arts in Data Science

Relevant Coursework: Data Mining and Analytics, Causal Inferences and Decisions, Principles and Techniques of Data Science, Probability and Mathematical Statistics in Data Science, Business Analytics, Structure and Interpretation of Computer Programs

Programming Languages: Python, SQL, R, Java, HTML/CSS, JavaScript

EXPERIENCE

Student Library Work Leader | University of California, Berkeley | Berkeley, CA *06/2022 - Present*
- Managed circulation of over 40 million books using a library management system and communicating with universities across the country.
- Assisted an average of 50 patrons daily, addressing inquiries and streamlining library operations.
- Led staff organization, implementing task delegation strategies for increased workflow efficiency.

Data Analyst | Collatz Conjecture Research Group | Berkeley, CA *03/2022 - Present*
- Collaborated on research involving the Collatz Conjecture, providing data-driven insights for enhanced exploration of conjecture.
- Visualized trends in the Collatz Conjecture, utilizing Python to plot observed growth rates.
- Calculated growth rate predictions through a machine learning model, contributing to theories about the conjecture's behavior.

Simulations Data Analyst | Space Technologies and Rocketry (STAR) | Berkeley, CA *09/2023 - Present*
- Gathered data from rocket navigational systems, processed data in for analysis, and visualized trends in Python.
- Identified significant data trends, informing adjustments that resulted in a 30% increase in flight altitude.
- Implemented data validation software for GPS and altimeter data, enhancing deployable air brakes' efficiency by 10%.

PROJECTS

Stock Valuation Prediction Model *(Python)*
- Utilized Google Finance API to access historical market data for all publicly traded companies.
- Engineered a predictive machine learning model that achieved a 57% accuracy rate in forecasting stock prices.
- Enhanced forecast accuracy by 10% through the integration of news data for the detection of significant mergers and acquisitions.

2D Tile-Based World Exploration Engine *(Java)*
- Engineered a random world generation engine by creating a map-generating algorithm.
- Implemented a responsive and engaging user interface, facilitating a user-friendly experience.
- Collaborated effectively with a partner, navigating all project phases from ideation to presentation.

Exoplanet Classifier *(Python)*
- Engineered machine learning models to accurately classify exoplanets based on their mass and radius.
- Optimized exoplanet classification by conducting a comparative analysis of two distinct classification algorithms.
- Achieved an 86% accuracy rate in predicting exoplanet types according to their sizes.

Business Operations Analysis *(Python, Tableau)*
- Performed data pre-processing and cleaning, ensuring the effective segmentation of critical product distribution information.
- Conducted extensive exploratory data analysis, focusing on identifying and understanding key trends related to demand fluctuations and seasonality.
- Leveraged Tableau to design an informative and user-friendly dashboard that visually highlighted the most significant trends, enabling data-driven decision-making.

SKILLS & INTERESTS

Technical Skills: Data Mining and Analysis, Machine Learning, Statistical Modeling, Data Visualization, Program Development

Soft Skills: Leadership, Communication, Critical Thinking, Problem-solving, Collaboration, Project Management, Decision Making

Interests: Football, R&B, Video Games, Biking, Philosophy, Greek Mythology, Music Festivals, Sudoku, YouTube