Joshua Sengvongdeuane

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EDUCATION

University of California, Berkeley   Aug 2020 - May 2024
Bachelor of Arts in Data Science

Relevant Coursework: Data Engineering, Data Mining and Analytics, Structure and Interpretation of Computer Programs, Probability in Data Science, Data Structures & Algorithms, Principles and Techniques of Data Science

SKILLS

Programming Languages: Python, Java, SQL, R, HTML, CSS, MongoDB
Technical Tools: Jupyter Notebook, QGIS, RStudio, Git, Microsoft Office Suite

HIGHTLIGHTED EXPERIENCE & PROJECTS

Data Discovery Research – Berkeley, CA   Jan 2024 – May 2024
Data Analyst Intern
- Led a research initiative to investigate the climate change impacts in rural Tanzania, Kenya, Uganda, and Mozambique, focusing on women's labor force and gender norms amidst changing land productivity.
- Conducted data analysis in R to explore climate change trends to identify correlations between climate change, women's labor force, and gender norms.
- Created geospatial visualizations using QGIS software to depict climate change patterns in target locations.

Project - Survivor | Python, Pandas, Seaborn   Dec 2023
- Coordinated a collaborative data science project to analyze data from the reality TV show "Survivor", aimed at predicting the winner of each season of the show using machine learning techniques including random forest classification, linear regression, and k-nearest neighbors.
- Implemented thorough feature engineering to extract relevant insights and optimize model performance.
- Employed cross-validation techniques to access the capabilities and performance of the model created.

Project - Sensors | SQL, Python   July 2022
- Utilized SQL to extract insights from a dataset comprising sensor data collected from buildings, aimed at optimizing building performance and energy efficiency.
- Applied SQL queries to interpolate missing data points within the sensor dataset, employing techniques such as linear interpolation to maintain dataset completeness for analysis.

JP Morgan – San Francisco, CA   June 2020 - Aug 2020
Intern, Commercial & Government Banking
- Analyzed and developed strategies for client, Perot Museum of Nature and Science, to redesign their employee training methods.
- Collaborated with 3 interns to create a detailed presentation for Perot Museum of Nature and Science that outlined new strategies for employee training. Presented to the entire board of The Perot Museum of Nature and Science, as well as my JP Morgan managers.
- Conducted market research on various game-based learning platforms that enhance employee performance. Analyzed research & determined that platform, Kahoot, would be the most effective training tool for The Perot Museum.

LEADERSHIP

CS61BL: Data Structures and Algorithms – Berkeley, CA   June 2023 - Aug 2023
Academic Intern
- Assisted 30+ students on programming assignments and answered questions.
- Lectured on topics regarding data structures and algorithms such as graphs, trees, and prim's algorithm to provide a better understanding for students.