Jared Yu

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RELEVANT SKILLS

Languages and Software

- Python, R, SQL, C++, Java, Tableau, Power BI, Excel, PowerPoint, Word, Git, Docker, Unix, LaTeX

Skills

- data science, statistics, machine learning, deep learning, database, A/B testing, data visualization, teamwork, communication, quick learner

EXPERIENCE

Business Analyst Nov 2021 – Present

inSync Staffing, support a client

- Automated weekly and monthly Excel reports, reducing the time taken for a report to be delivered by over 80% in some instances. This was accomplished using Python, VBA, SQL, and Power BI. These processes include a downstream QA/QC process to verify data integrity.
- Performed ad-hoc data analysis on company datasets, generating novel insights delivered within written reports that contain various figures. Designed graphs from databases, allowing stakeholders to quickly understand the problem at hand, using Python and Power BI.

Software Quality Operations Associate Mar 2021 – Nov 2021

Artech LLC, supporting Waymo

- Simulated numerous scenarios for the Waymo driver to test its capability to handle different situations. Metrics for individual emergency situations were built and tested within Waymo's in-house software.
- Communicated frequently across different teams to clarify the parameters of the scenario. This was accomplished using video meetings, chat messages, and comment updates on the Jira platform.

Writer / Blogger 2017 – Present

Personal blog, Kaggle (data science competition platform)

- Distilled information and notes on various topics from academia to an online community of thousands of data science enthusiasts. Written blog posts that span several pages explain the fundamentals of various data science concepts. Total page views have exceeded 10,000 across multiple blog posts.

PROJECTS

Wholesale Warehouse Database Sep 2020 – Nov 2020

Final project for the course Principles of Database Systems at Johns Hopkins University

- Developed a database from scratch base on the model of a wholesale warehouse department. The process included an E/R Model, Relational Model, and CRUD matrix. The database was filled with entries, and custom SQL queries were written to analyze the contents of the database.

Mechanisms of Action Sep 2020 – Nov 2020

Final project for the course Data Mining at Johns Hopkins University

- Researched methods to maximize the evaluation metrics of a data science competition centered around protein data, leading to insights into how the protein dataset responds to various machine learning methods. The dataset was first explored using EDA, feature engineering was applied using principal component analysis and clustering methods. Grid search was applied to the following algorithms: logistic regression, k-NN, naïve Bayes, decision trees, random forest, and XGBoost. A tree-based optimization search technique was then applied to a neural network.
- Presented the results in PowerPoint while uploading the video to YouTube, giving classmates and the professor an opportunity to learn about new techniques. The video highlighted how feature engineering can benefit a model, and how deep learning can vastly outperform other traditional machine learning models.

EDUCATION

Johns Hopkins University Sep 2019 – May 2022

Data Science M.S. (GPA: 4.0)

- Taught students fundamental statistics concepts in class forums to help others with a different background understand difficult concepts. Spent time to carefully write out solutions to group problems using LaTeX and R.

University of California, Davis Sep 2017 – Jun 2019

Statistics B.S. (GPA; 3.56)

- Appointed as an instructor-approved forum poster for multiple classes on the class discussion platform Piazza. Collaborated with students to help others gain an understanding of difficult material.