Jared Yu
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RELEVANT SKILLS

Languages and Software

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

Skills

- statistics, data science, machine learning, data mining, data visualization, deep learning, teamwork, communication, writing, presentation, quick learner

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EXPERIENCE

Technical Assistant   Nov 2021 – Present

inSync Staffing, supporting a client

- Used Python, xlwings, and SQL to automate weekly and monthly Excel workbook updates. A task which may have taken 1-2 hours is cut down by more than 50% through the use of automation to replace manual entry which is both time consuming and error prone. Documented job aids to assist in the maintenance of such tasks.

- Drafted reports and created visualizations in Python on various data sources. The reports explored individual variables and analyzed them using bar charts and heatmaps to find hidden relationships. The report outlined possible steps to better understanding why certain groups could be classified in a given way.

Software Quality Operations Associate   Mar 2021 – Nov 2021

Artech LLC, supporting Waymo

- Designed scenarios to test the Waymo Driver's capabilities in handling different scenarios. Work involved creating metrics which can assess various events and setting up simulated objects.

- Communicated frequently with scenario requesters to clarify the finer details of any scenario. This involves doing video meetings, chat messages, and comment updates on the Jira platform.

Writer / Blogger   2017 – Present

Personal Blog, Kaggle (Discussions Master), and init27 Labs

- Shared notes on various topics learned in school with the online community of data scientists. The total number of page views across different posts has exceed 10,000.

- Written in depth about topics related to statistics, data science, and deep learning using Richard Feynman's concept of learning something best by teaching it to others.

PROJECTS

Wholesale Warehouse Database   Sep 2020 – Nov 2020

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

- Designed a database on scratch based on a wholesale warehouse department. The design includes an E/R Model, Relational Model, and CRUD matrix.

- Filled the database with custom entries. Utilized custom SQL queries to analyze the database.

Mechanisms of Action   Sep 2020 – Nov 2020

Final project for the course Data Mining at Johns Hopkins University

- A protein dataset was first explored using EDA. Feature engineering was then applied via PCA and clustering techniques. A grid search approach was used for the following algorithms: logistic regression, k-NN, naïve Bayes, decision trees, random forest, and XGBoost. Finally, a deep learning approach was implemented.

- The project was shared with the class via a PowerPoint presentation. The results demonstrated the potential of feature engineering in improving a model's accuracy. The deep learning model was shown to be a vast improvement over every other model that was built.

EDUCATION

Johns Hopkins University   Sep 2019 – Aug 2021

Baltimore, Maryland (online)

- Data Science M.S. (GPA: 4.0)

University of California, Davis   Sep 2017 – Jun 2019

Davis, California

- Statistics B.S. (GPA: 3.56)