Yijun Zhou

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EDUCATION

Rice University, *Houston, TX* Expected Dec. 2023
M.S. in Data Science (GPA:3.88/4.00)
University of California, Irvine, *Irvine, CA* Jul. 2022
B.S. in Data Science (GPA: 3.79/4.00)

SKILLS

Programming Languages: Python, SQL, R, Java, HTML/CSS, Javascript
Development & Tools: MySQL, PostgreSQL, Sklearn, Databricks, AWS, Spark, Pandas, Power BI, Tableau

WORK EXPERIENCE

Data Science Intern - *Bread Financial Holdings, Inc.* May. 2023 - Aug. 2023

- Developing and deploying a classification model that contributes to significant cost savings through enhanced post-origination **fraud detection** and prevention.
- Developed function to monitor input data for out-of-spec values leveraging advanced techniques, including time series analysis, for **anomaly detection**.
- Documented deposit fraud detection model use cases for governance purposes.

Data Science Intern - *Beijing Kuaishou Technology Co., Ltd.* Apr. 2021-Aug. 2021

- Developed statistical and **machine learning** models to analyze user behavior, identifying two previously unknown indicators that contributed to a 5% improvement in user retention rate
- Developed and optimized complex SQL queries to extract insights from large datasets, resulting in a 25% reduction in query execution time and improved data access for team members
- Worked in close collaboration with the Product and MLE teams to develop core KPIs

Data Analyst Intern - *Chengdu Chaoyouai Technology Co., Ltd* Aug. 2020-Dec. 2020

- Designed and maintained essential dashboards for tracking user activities and product sales, and presented analysis results to the Product Manager with weekly reports
- Supervised **A/B testing** for new app functions; implemented event tracking, analyzed testing results, and formed visualized reports; conducted 5 A/B testing tasks

PROJECTS

How to open a coffee shop successfully?: DS Capstone Project Jan.2022 - Jun.2022

- Retrieved over 440,000 of data from Yelp, Google, and Census BureauAPIs; Cleaned raw data using **Pandas** and **SQL** and stored data into the Google Cloud database
- Exported on texts (**VADER**, **word2vec**) and photos (**yolo5**) to get more insights
- Built Penalized Regression and Autoregressive Model using **Sklearn** to explore significant factors about shop rate, and obtained an optimal accuracy rate of 77%

Weather Forecast: Machine Learning Project Jan.2021 - Mar.2021

- Trained weather data using 3 different ML models(**KNN**, **Adaptive Boosting**, **Random Forest**) using Python and adjusted parameters for the optimistic cross-validation results
- Applied Ensemble Learning by combining predictive performance from models and resulted in an 80% accuracy rate and 76% recall rate