Banff Jiang

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Education

University of California, Riverside

Riverside, CA

Bachelors of Science in Data Science

September 2022 – June 2024

• 3.83 GPA in major related courses (STEM)

University of California, San Diego

La Jolla, CA

Bachelors of Science in Data Science

September 2024 - June 2026

Techincal Skills

• Languages: Python, C++, C, R, Java, JavaScript

• Frameworks: Node.js, Arduino, Flask, React/React Native

• Developer Tools/Skills: Git, Github, Docker, PostgreSQL, HTML/CSS, Redis, AWS, FastAPI

Experience

Data Science/Machine Learning Intern

Tempe, AZ

DriveTime

June 2024 - September 2024

- Developed predictive models that calculated potential customer purchase likelihood through credit history by 50% using ML models such as Random Forest and XGBoost.
- Trained models on 30+ datasets with millions of rows and thousands of features, followed by scoring.
- Increased data model efficiency by 20% through EDA and cleaning large datasets to preprocess.
- Automated data pipelines using Python and SQL, reducing data processing time by 30%.

Undergraduate Research Assistant

La Jolla, CA

University of California, San Diego

December 2024 – Present

- Developed and implemented trend filtering techniques on graphs, exploring their application in time series analysis
- Contributed to the development of fast differentially private matrix factorization algorithms

Undergraduate Academic Instructor - Peer Educator

Riverside, CA

University of California, Riverside

March 2023 – June 2024

- ullet Provided organized course materials and tools to efficiently aid 200+ students in Calculus.
- Proctored weekly exams and performed individual/group meetings with students.
- Worked closely alongside Professor to refine standards of the course.

Projects

Stock Market Predictor | Flask, TensorFlow, PostgreSQL

June 2024 - July 2024

- Built and deployed a machine learning model to forecast future stock market movements by analyzing historical market data and identifying key trends and patterns.
- Achieved a 96% accuracy rate by leveraging a combination of Random Forest, Linear Regression, and Support Vector Machines (SVM) to ensure optimal predictive performance.
- Conducted extensive data preprocessing including feature selection, normalization, and handling missing data to improve model accuracy, achieving a 98% data completeness rate.
- Utilized Python and key libraries such as Pandas, NumPy, Scikit-learn, and TensorFlow for data analysis, model training, and evaluation, improving model predictions by 7%.

${\bf EmotionSense} \mid NLTK, \ Seaborn, \ Scikit-learn$

May - June 2024

- Engineered a sentiment analysis project on 100,000+ Amazon reviews using Elbow Method, KNN, and K-means, vectorized reviews by successfully utilizing BoW and TF-IDF.
- Designed data cleaning and preprocessing pipelines, enhancing dataset readiness for optimal analysis.
- Evaluated model performance using metrics, achieving 90% F1 score, and 94% accuracy.