

# Jeff Hwang

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## TECHNICAL SKILLS

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**Languages:** Python, SQL, R, C++, JavaScript, HTML, CSS

**Tools/Technology:** Tableau, PowerBI, Excel, pandas, Numpy, Matplotlib, scikit-learn, tensorflow, seaborn, PostgreSQL, Git, L<sup>A</sup>T<sub>E</sub>X

## EXPERIENCE

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### Traffic Engineer Intern

Jan 2024 – Aug. 2024

*Traffic Control Engineering*

*Brea, CA*

- Coordinated with the internal engineering team members to develop and deliver a variety of design plans
- Utilized AutoCAD and Google Earth to build precise traffic engineering designs and plans, ensuring accuracy and alignment with project requirements.
- Facilitated reviews of the product or drawing submittals during the construction phase while proactively updating and maintaining databases and logs

## PROJECTS

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### Adult Income Predictor | Python | pandas | NumPy | scikit-learn | tensorflow

- Developed an income prediction model using the UCI Census dataset, following an end-to-end data science pipeline including data collection, cleaning, preprocessing, and analysis.
- Utilized logistic regression and custom prediction models to forecast income ranges, achieving alignment with underlying data distribution
- Implemented bias mitigation strategies, including resampling, regularization with dropout layers, and fairness analysis using distribution comparisons.
- Evaluated fairness within predictions, identifying limitations due to dataset imbalance and low high-income representation.

### Aerosol Concentration Predictor | Python | pandas | NumPy | Matplotlib | scikit-learn | seaborn

- Built a machine learning model to analyze the relationship between weather conditions and atmospheric aerosol concentrations in the Los Angeles, California region
- Conducted KNN regression and used cross-validation to test KNN regression model with **.98** accuracy and **.002** MSE for predicting NOx levels
- Applied data cleaning and exploratory data analysis on a **2000+** observations dataset using tools such as **pandas**, **seaborn**, and **scikit-learn**

### RateMyItinerary | JavaScript | HTML/CSS | Node.js | Express.js | MongoDB

- Developed a full-stack web application that allows people to create and share itineraries
- Implemented a forum allowing users to post custom itineraries, search by keyword, and sort by location
- Facilitated the front-end skeleton using **HTML**, **CSS**, and **JavaScript** while using **Express.js** as the back-end web application framework
- Utilized **MongoDB** to allow each user to store their own unique itinerary

## EDUCATION

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### University of California, Riverside

Riverside, CA

*Bachelor of Science in Data Science*

*Expected: December 2024*

- GPA: 3.5/4.0
- Relevant Coursework: Data Structures and Algorithms, Data Analysis Methods, Artificial Intelligence, Database Management Systems, Machine Learning and Data Mining, Software Engineering