Wasey Mulla

wasey.mulla.1@gmail.com | 972-513-7845 | https://www.linkedin.com/in/waseymulla

Education

The University of Texas at Dallas — Richardson, TX
Masters in Computer Science — *Aug. 2023 – Present*

The University of Texas at Dallas — Richardson, TX
Bachelor of Science in Computer Science, — *Aug. 2019 – May 2023*

Technical Skills

Languages: Python, JavaScript, Java, C++, Typescript
Technologies:Linux, React, React Native, JSX, Git, GitHub, JSON, Jupyter Notebook, Flask, Tkinker, Tailwind, Expo, Node.js
Database: MongoDB, SQLite, Oracle, MySQL, PostgreSQL
ML/Data Science Libraries: NumPy, Pandas, PyTorch, Matplotlib, SciPy, Scikit-Learn, TensorFlow, Keras

Experience

INMO.AI - Machine Learning Engineer Intern — August 2022 – December 2022
Austin, TX

- Spearheaded the development of a sophisticated real-time mortgage prediction application, employing TensorFlow and Keras, culminating in a commendable 90% accuracy rate.
- Conducted comprehensive data profiling, validation, cleaning, and normalization to ensure data quality and readiness for model training.
- Implemented modular FAST API micro-services, containerized with Docker, to seamlessly integrate the machine learning model with the user interface.

Atticus Capital - Software Engineering Intern — May 2022 – August 2022
Minneapolis, MN

- Designed an investment portfolio mobile app with a user-friendly front-end interface using a Figma mockup, embodying consistent design principles and brand identity. Simplified user data visualization for enhanced accessibility and comprehension.
- Led the development of a cross-platform mobile application using JavaScript, React Native, JSX, Tailwind, and Expo, optimizing performance for a responsive user interface.
- Seamlessly integrated the mobile application with an API, enabling users to access and update mobile application content, boosting engagement and satisfaction.
- Implemented a secure authentication system and connected the application with MongoDB to efficiently store and manage vital user investment information, ensuring data integrity and accessibility.

Projects

AI HealthWellness Predictor — October 2023 – November 2023

- Developed the "HealthWellness Predictor" machine learning model using Scikit-learn and TensorFlow to forecast health and wellness indicators based on patient health data. The model predicted the likelihood of diabetes based on patient lifestyle choices.
- Employed data pre-processing techniques and conducted an in-depth analysis to explore correlations between patient characteristics and health indicators.
- Utilized a Linear Regression model, trained on patient health data, to predict health and wellness outcomes.
- Achieved a significant 10% reduction in Mean Squared Error (error metrics) through hyper-parameter tuning and cross-validation, resulting in a robust predictor with an impressive 90% accuracy in training and predicting health and wellness outcomes.

Demographic Mapping and GIS Analysis Application — August 2023 – September 2023

- Developed an interactive demographic and geographic landscape visualizer in the form of web application integrated with Google Maps API and GIS data provided by the US Geological Service.
- Built a feature that allows users to search for population sizes and geographical structure such as mountain ranges and volcanoes using Python, HTML, CSS and Follium API.
- Introduced intractability, allowing location marking and the analysis of topographical features by coordinates on the interactive map.