Karma Woeser

Portland, OR | karmawoeser1@gmail.com | Linkedin | Github | Portfolio

Technical Skills

Languages: Python, HTML/CSS, JavaScript, C, C++, `C#`, SQL
Frameworks: Django, Flask, Express, React
Developer Tools: Git, Linux, Docker, AWS, Jupyter, MongoDB, MySQL, NodeJS
Libraries: Pandas, NumPy, Scikit-learn, PyTorch, Matplotlib, Tailwind CSS

Projects

House Prices Predictor | *Python, Pandas, scikit-learn, Matplotlib* Github

- Developed a **machine learning model** to predict house prices using Kaggle's real estate dataset (1,460 homes, 79 features), helping buyers and sellers analyze market trends.
- Trained **Random Forest and Gradient Boosting** models, optimizing hyperparameters with GridSearchCV to reduce RMSE by 10% while addressing overfitting.
- Analyzed prediction accuracy using **scatter plots**, identifying the model's weaknesses and the impact of feature selection on overfitting.

ChatGPT Clone | *React, Express, MongoDB, Git, Clerk API and Google Gemini API* App Link

- Developing a full-stack AI chatbot application using **React** for the front-end and **Express** for the back-end, integrating **Google Gemini AI** for NLP
- Implemented **Clerk** for **user authentication** and management, enabling secure user sign-ups and logins

Gym App | *JavaScript, Tailwind CSS, Vite* App Link

- Developed a fitness tracking web app for users to generate workout plans and track progress
- Implemented **state management** and **client-side logic** for seamless data handling

Tibetan Book Store | *React, Express, MySQL, Docker, Git* Github

- Built the frontend with **React**, creating an interactive user interface
- Designed and implemented a **RESTful API** with Express to handle **CRUD** operations for book listings
- Integrated **MySQL** to store book data, ensuring efficient data handling
- Utilized **Docker** to ship and deploy the software on the server

Experience

Generative AI Intern June 2024 – August 2024
Cognizant *Remote*

- Supported the design and fine-tuning of **Generative AI models** under mentorship
- Conducted in-depth model evaluation using various metrics and fine-tuned **hyperparameters**

Data Analyst Intern Sept 2022 – June 2023
University of Oregon Solar Radiation Monitoring Lab *Eugene, OR*

- Collaborated with faculty to develop data collection scripts ensuring data integrity
- Utilized Python libraries such as **Pandas** and **NumPy** to help automate data analysis from multiple stations, achieving accurate and consistent results
- Participated in **data collection** efforts, retrieving solar radiation data from various stations across Oregon

Education

University of Oregon Eugene, OR
BS in Computer Science, Minor in Math *Graduation Date: June 2025*

Coursework/Clubs: **Leet Club**, Computer Architecture, **Data Structures and Algorithms II**, Operating Systems, **Machine Learning**, System and Security Administration, Linear Algebra, Discrete Math