Dhrumit Savaliya https://dhrumitsavaliya.com | https://github.com/Dhrumit26

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Passionate and driven Machine Learning enthusiast, skilled in building intelligent systems and unlocking insights through data.

Qualification Summary

Machine Learning: Gaining expertise in designing, implementing, and fine-tuning machine learning models and **deep learning algorithms** through hands-on projects and coursework.

Project Development: Proficient in planning, developing, and deploying machine learning projects, with a focus on meeting objectives, optimizing model performance, and adhering to project timelines.

Data Analysis: Skilled in analyzing and preprocessing data, extracting insights, and applying data-driven techniques to solve complex problems, ensuring accuracy and relevance.

Key Strengths: Strong ability to collaborate with cross-disciplinary teams, continuously learn and integrate new technologies, and foster productive relationships with peers and mentors in the field.

Key Projects

California Housing Price Prediction Model, 2024
- Developed a robust housing price prediction model using **Scikit-learn's Linear Regression**, achieving an **R² of 0.6556**, focusing on features like location, size, and room count, data sourced from **Kaggle** and processed in **Jupyter Notebook**.
- Enhanced **data preprocessing** with **feature engineering** and **normalization**, improving model accuracy across **Linear, Lasso, and Ridge Regression** techniques.
- Currently developing a user-friendly web app using **Python Flask**, integrating **TensorFlow** for potential model deployment, and visualizing insights with **Matplotlib** and **Seaborn**.

Smart Pantry Manager, 2024
- Developed a robust pantry management system using **Next.js** and **Firebase Firestore**, enabling users to easily manage and search their inventory.
- Added AI-powered recipe suggestions using the **OpenAI API** to offer personalized meal ideas based on pantry contents.
- Optimized the application's performance and user interface through **Material UI**, ensuring a responsive, scalable solution deployed seamlessly on **Vercel**.

AI Chatbot Assistant, 2024
- Developed and integrated an AI-powered chatbot using **OpenAI's API**, enabling real-time interaction and providing accurate, conversational responses to user queries.
- Enhanced the user experience by implementing a responsive, real-time chat interface with smooth scrolling, built with **React.js** and **Material-UI** for a modern design.
- Optimized feedback collection and data storage processes by incorporating a modal feedback form and integrating **Firebase**, ensuring secure and efficient management.

My Website, 2023 • https://dhrumitsavaliya.com
- Developed personal portfolio website with HTML, CSS, and JavaScript by demonstrating web development and projects management expertise.
- Optimized the website for seamless functionality across diverse devices with auto-adjusting design features, enhancing user accessibility.
- Incorporated quick-access links to LinkedIn and GitHub profiles, while facilitating easy connections and web development/design portfolios.

Relevant Experience

SWE Fellowship – Headstarter AI
- Developed and launched 5+ AI applications and APIs, utilizing technologies such as NextJS, OpenAI, Firebase, StripeAPI, and AWS.
- Led a team of 4+ engineering fellows from project conception to deployment, applying MVC design patterns to ensure structured and scalable solutions..
- Drove the final project to meet ambitious goals: 1000 users, 1000 accounts, or $1000 in revenue, while enhancing skills in vision setting, personal branding, and technical collaboration.

Education

Bachelor's in Computer Science GPA: 3.40 - California State University, Long Beach, 2022 - 2025

Acquired broad knowledge of computer science principles, including data structures, object-oriented programming, digital logic, assembly programming, and discrete structures for computing applications.

Attained in-depth understanding of software engineering, computer architecture and organization, database fundamentals, algorithms, system programming, operating systems, and the application of probability and statistics in computing contexts.

Certifications

President's list, California State University, Long Beach, 2023

Technical Skills

Programming Language: Python, SQL, Java

Frameworks: TensorFlow, PyTorch, MongoDB, Scikit-learn, Pandas, NumPy, Flask

Data Handling & visualization: Tableau, Power BI, SQL, Matplotlib, Seaborn

Volunteer Work

Outreach Lead - CSULB Developer Students – GDSC, 10/2023 - Present

Established partnerships with universities to enhance engagement levels significantly.

Spearheaded inclusive marketing strategies to improve GDSC growth.

Directed community projects and skill development initiatives.