Likithpranai Mukkamala

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LANGUAGES/LIBRARY/FRAMEWORKS/TOOLS

- **Languages:** HTML, CSS, JavaScript, Python
- **Library/Frameworks/Tools:** MERN, React.js, Next.js, MongoDB, Express.js, Node.js, Tailwind CSS, Pandas, NumPy, Matplotlib, Scikit-learn, Git, GitHub, Firebase, MongoDB Atlas, VS Code, Jupyter Notebook

PERSONAL PROJECTS

Job Application Tracker (Chrome Extension): Demo | Extension | GitHub   [07/2024 – 07/2024]
- Achieved a streamlined job application management process, and increased user efficiency, as measured by positive user feedback and a 5-star rating on the Chrome Web Store, by developing a user-friendly Chrome extension utilizing **React.js** and **Tailwind CSS**.
- Successfully implemented **Node.js** and **Firebase** for user authentication and Firestore for data management, facilitating efficient storage and retrieval of job applications, thereby **improving data handling efficiency**.
- Achieved a seamless user experience and minimized potential issues, by conducting **extensive testing and debugging** throughout the development cycle before deployment.

Celebrity Image Classification: Demo | GitHub   [08/2024 – 08/2024]
- Accomplished the successful collection and preprocessing of a large dataset of images of five celebrities, by employing **NumPy**, **OpenCV**, and wavelet transformation techniques to ensure optimal input for model training.
- Achieved a classification accuracy of **78.9%**, as measured by the F1 score, precision, and recall metrics, by implementing a **Support Vector Machine** algorithm and utilizing **GridSearchCV** from the **scikit-learn** library to fine-tune hyperparameters for enhanced model performance.
- Deployed the classification model with a **Python Flask** server, by creating an intuitive user interface that classifies images and provides probability scores for celebrity similarity, facilitating real-time interaction with the model.

AI Chatbot (Gemini AI): Demo | Website | GitHub   [08/2024 – 08/2024]
- Accomplished the creation of a responsive AI chatbot service, by integrating the **Gemini AI API** with a user-friendly interface built using **React.js** and **Tailwind CSS.**
- Achieved secure user authentication and efficient chat history management, by implementing **Firebase** for authentication and utilizing Firebase Storage for storing chat logs, ensuring data integrity and accessibility.

E-Commerce Website: Website | GitHub   [06/2024 – 07/2024]
- Accomplished the design and implementation of a fully responsive e-commerce web application, by creating a **RESTful API** using **Express.js** for back-end services and generating the user interface with **React**.
- Achieved a streamlined product management process, by developing a secure admin dashboard with Express.js that enabled the addition, editing, and removal of products, leveraging **MongoDB** for data persistence and ensuring a robust user experience.

COMPETITIONS / CLUBS

Google Gemini AI Hackathon (DyslexicAI): (View Pitch)   [05/2024 – 05/2024]
- Accomplished the conceptualization of a scalable **mobile application** architecture, by designing a modular framework that utilizes the **Gemini AI API** to transform standard text into dyslexic-friendly formats, aimed at enhancing accessibility for dyslexic students.
- Successfully **presented** the planned mobile application **prototype** at the Google Hong Kong Headquarters, demonstrating its integration of the Gemini AI API for converting text to dyslexic-friendly formats, and effectively communicating its potential to support dyslexic students in their academics.

EDUCATION

The Hong Kong University of Science and Technology || Hong Kong   [09/2023 – 09/2027]
Sophomore BEng Computer Engineering