Sai Charan Vathsavayi

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Profile

Master's student with experience in building scalable applications, developing intelligent systems, and creating impactful software solutions.

Education

California State University East Bay 08/2023 – 05/2025
Masters in Computer Science Hayward, California

Bharath University 07/2019 – 05/2023
Bachelors in Computer Science Chennai, India

Professional Experience

UL solutions 05/2024 – 08/2024
Python Automation Developer Intern Fremont, California

- Developed Python automation scripts to streamline testing processes and improve efficiency. Created command-line tools for system monitoring and control. Implemented data collection and analysis pipelines.

Hamaaraa 12/2023 – 02/2024
Web Developer Intern Fremont, California

Developed Hamaara's website from scratch with React.js, ensuring a responsive user experience, optimized performance, and efficient content management.

Projects

Student Attentiveness Detection System

Developed a **Student Attentiveness Detection System** using **Computer Vision and Machine Learning** to analyze student engagement in real time. Implemented facial recognition and eye-tracking algorithms to assess focus levels and provide insightful analytics.

PrepNest

Developed **PrepNest**, a role-based learning platform for interviews, featuring structured content, user authentication, and an intuitive web interface.

AI-Powered Resume Analyzer

Built an AI-driven resume analyzer that provides feedback on formatting, keyword optimization, and job match percentage using NLP and machine learning models

Fraud Detection System

Implemented a machine learning model that detects fraudulent transactions using anomaly detection and classification algorithms. The system helps businesses minimize financial losses

Skills

Computer Vision | Machine Learning | Python | Java | vue | Express.js | Html & CSS | NLP | Tensorflow | React.js | Pandas | AWS

Publications

Student Attentiveness Detetction System 04/10/2023

This research bridges the gap between qualitative and quantitative methods to classify student attentiveness using machine learning algorithms (K-means, SVM) and RGB-D sensor data, aiming to improve teaching strategies and personalized learning systems.