JAYACHANDIRAN K

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Summary

Computer science undergraduate specializing in AI/ML with hands-on experience building intelligent systems, deep learning models, and full-stack web applications. Skilled in Python, C++, and JavaScript. Developed scalable solutions in healthcare, transportation, and disaster management with up to 95% model accuracy. Focused on delivering efficient, accessible, and real-world deployable technologies.

Skills

- **Programming Languages:** Python, C++, JavaScript
- **Web Development:** HTML5, CSS3, Bootstrap, Node.js, Flask, Firebase, REST APIs
- **AI/ML and Deep Learning:** Scikit-learn, TensorFlow, Keras, OpenCV, NLP, dlib, Computer Vision
- **Other Skills:** UI/UX Design,Firestore, MongoDB

Education

B.E. CSE(Artificial Intelligence and Machine Learning) | CGPA : 9.23 **2022 – Present**
Sri Sai Ram Engineering College, Chennai

Higher Secondary Schooling | Percentage: 93.83% **2021 - 2022**
Sri Sankara Vidyalaya Mat. Hr. Sec School, Chennai

Secondary Schooling | Percentage: 83.60% **2019 - 2020**
Sri Sankara Vidyalaya Mat. Hr. Sec School, Chennai

Experience

ML & Web Development Intern| Muscle Magic **June, 2024**

- Built ML models (90%+ accuracy) to automate fee prediction and reminders using Flask and Firebase, cutting manual workload by 70%.
- Developed real-time admin tools and integrated Firestore sync for seamless user and payment management.

Web Application Design Intern| Zero Solutions **August, 2023**

- Led front-end development of a responsive web app using HTML, CSS, and JavaScript; achieved perfect Lighthouse performance and accessibility scores.
- Enhanced page speed by 40% and improved UX with Figma-based design, boosting user engagement.

Projects

Health Guard AI

- Architected an intelligent NLP-driven health chatbot that analyzes early symptoms for preliminary risk assessment.
- Attained 85.7% diagnostic accuracy across 1200+ medical images using CNN, reinforcing AI-based medical predictions.

Safe Journey AI

- Built an AI-powered driver alert system using computer vision with up to 5.5× faster response time to prevent drowsiness-related accidents.
- Applied EAR/MAR metrics and facial landmark techniques to reach 93.16% accuracy in daylight and 87.3% at night.

Disaster Detection & Management AI

- Created a deep learning model to detect natural calamities from satellite imagery with 89.7% accuracy.
- Implemented a real-time alerting system to enable quicker response and mitigation by emergency teams.

Achievements

- Won the **Smart India Hackathon 2024** under the Ministry of Social Justice and Empowerment for Problem Statement **PS1578**.
- Secured **2nd place** in **IC Hack 2.0**, organized by IEEE India Council, as part of **Team BYTE STORM** in October 2023.
- Appointed as **Student Chapter Secretary** – **IEEE EMBS**, Sri Sairam Engineering College; organized and led 10+ technical and healthcare-focused events, fostering interdisciplinary engagement.

Publications

- **Smart Healthcare Assistant with Epidemiological Modelling** – Published in the 2024 **IEEE ICPECTS Conference**. Proposed an AI-powered assistant integrating epidemiological modeling for disease prediction

Certifications

- **Design & Implementation of Human-Computer Interfaces**, **Deep Learning** – NPTEL.
- **C Programming**, **Python Programming** – IIT Bombay Spoken Tutorial.