Panchadarla Varshith Sai Raj

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Developer. Engineer. Student. Innovator.

Aspiring developer with a passion for Web Development and Artificial Intelligence/Machine Learning.
Skilled in building user-friendly applications using modern front-end and back-end technologies. Excited to explore AI-driven solutions in Computer Vision, Machine Learning, and Deep Learning to solve real-world problems while continuously learning and innovating.

Skills

Languages: C, C++, JavaScript, Python
Web Development: React.js, Node.js, Express.js, Flask, Socket.IO, Tailwind CSS
ML/DL: Scikit learn, Computer vision
Database: MongoDB, SQLite, MySQL
Tools: VS Code, Postman, Vercel, Git, Figma

Experience

Web Development Intern [Certificate] [LOR]
ExternsClub [June 1st, 2024 – July 31st, 2024]

- **Designed and Developed**: Created a "Digital Marketing Website" inspired by Schbang, adhering to industry standards.
- **Technologies Mastered**: Gained hands-on experience with HTML, CSS, JavaScript, Tailwind CSS, and React.js.
- **Problem-Solving**: Improved debugging and troubleshooting skills to optimize web performance and user experience.

Full Stack Development Intern [Certificate] [LOR]
EazyByts Web Solutions [January 1st, 2025 – February 1st, 2025]

- **Stock Market Dashboard** – Built an interactive dashboard using ReactJS, Tailwind CSS, and Alpha Vantage API to fetch and visualize real-time stock data.
- **Event Management Website** – Developed a full-stack MERN application for event creation, user registration, and ticket booking.
- **Portfolio Website** – Designed a personal portfolio using React.js, showcasing projects with a modern and responsive UI.

AI and Machine Learning Intern [Certificate]
Novitech Pvt Ltd [November 28th, 2024 – January 3rd, 2025]

- **AI-Driven Development**: Led the creation and deployment of AI applications, optimizing model training and real-time performance.
- **Computer Vision and NLP**: Developed innovative solutions in Artificial Intelligence, Computer Vision, Deep Learning, and Natural Language Processing (NLP).
- **Model Optimization**: Improved deep learning models by balancing accuracy, speed, and resource efficiency for real-world applications.

Projects

Cricket Score Prediction Model [LINK]

- Developed a machine learning-based cricket score prediction model using **Python and relevant libraries** and integrated it into an interactive Streamlit web app for real-time predictions.
- Performed **data preprocessing and exploratory Data analysis** on historical match data to improve model accuracy and extract meaningful insights.

PocketLink - Resource Management Web App [LINK]

- Developed a web application for users to **save, categorize, and manage learning resources** like videos, PDFs, and notes.
- Designed a personalized dashboard with **"Saved Resources" and "Collections"**, along with search and filter functionality for efficient organization.

Smart Attendance System using Real-Time Face Recognition [LINK]

- Developed an AI-powered Smart Attendance System using **YOLOv3, OpenFace, and SVM** for real-time face detection and recognition with 81-image dataset capture per student.
- Integrated **Flask-SocketIO and MySQL** for real-time updates, automated attendance logging, and dynamic model retraining after each registration.

AI-Powered Security Drone for Real-Time Surveillance and Threat Detection [LINK]

- **AI-Powered Face Recognition:** Developed a GPU-processed FaceNet model for real-time, high-accuracy detection.
- **Real-Time Video Processing:** Built a low-latency facial recognition system for live surveillance with instant alerts for unauthorized access.

Community

Research Member, Center of Autonomous Systems
GITAM University, Visakhapatnam [2023 – Present]

- **Autonomous Car using Arduino** – Integrated line-sensing and ultrasonic sensors for movement tracking, object detection, and precise navigation.
- **Self-Parking Car Project** – Developing an AI-driven autonomous parking system with a **INR 2,00,000 grant**, focusing on object detection and image processing.
- **Project Demonstrations** – Presented innovations to **Indian Navy officials**, the Education Minister, and academic institutions.

Certifications

- **Full Stack Web Development Bootcamp** [LINK]
- **Artificial Intelligence** [LINK]
- **Development and Advanced Engineering Job Simulation** [LINK]

Education

- **10th Grade** – Dr. KKR Gowtham School, Visakhapatnam **Grade: 92.2%**
- **11th-12th** – Sri Viswa Junior College, Visakhapatnam **Grade: 91.8%**
- **Undergraduation, Computer Science Engineering** – Gandhi Institute of Technology and Management, Visakhapatnam **CGPA: 8.44**

Achievements

- **StepCone Hackathon:** Secured **3rd Prize** at GMRIT Rajam for developing a **Hostel Management System**.
- **AI Autonomous Hackathon:** Ranked in the **top 15 out of 150 teams** at Siddhartha Academy, representing **GITAM and CAS**.