PENMETSA SAI PHANEENDRA VARMA

Tanuku, Andhra Pradesh

☎ **+91 9182838219**   ✉ **phanivarma181@gmail.com**   🌐 **Portfolio**   **GitHub**   **LinkedIn**

Computer Science student with hands-on experience in full-stack development and machine learning. Skilled at building scalable, user-focused web applications and translating complex problems into practical, real-world solutions, and currently exploring advanced AI and cloud technologies to drive performance and innovation.

EDUCATION

SRI VASAVI ENGINEERING COLLEGE – Tadepalligudem, AP   **Aug 2022 – Present**

- *Bachelor ofi Technology in Computer Science, CGPA: 9.09/10*

SASI JUNIOR COLLEGE – Tanuku, AP   **Aug 2020 – Jun 2022**

- *Intermediate (MPC), Score: 953/1000*

MONTESSORI SCHOOL– Tanuku, AP   **Jan 2019 – Apr 2020**

- *Secondary School Certifiicate (SSC) , Score: 565/600*

PROJECTS

SkillSageAI | *React.js, Node.js, Django, LangChain, Gemini API | Aug 2025 – Oct 2025*   **Demo**

AI-driven interview preparation and resume analysis platform leveraging multimodal inputs and Retrieval-Augmented Generation (RAG).

- Built an intelligent system to analyze resumes, generate personalized interview questions, and evaluate performance using Gemini LLM and LangChain RAG workflows.
- Integrated Whisper for speech-to-text transcription and PyMuPDF for resume parsing, enabling multimodal input processing.
- Implemented ChromaDB vector storage for semantic context retrieval, ensuring domain-specific and difficulty-adjusted question generation.
- Developed structured JSON-based output pipelines for consistent AI responses and integrated user progress tracking via Django ORM.
- Delivered an adaptive learning dashboard with progress streaks and analytics to enhance user engagement and continuous improvement.

VConnect | *Full-Stack Community Engagement Platfiorm (Spring Boot, React, MySQL) | May 2025 – Jun 2025*   **Demo**

- Initiated and developed during internship to enable secure event creation, participation, and post sharing with JWT-based role access control.
- Integrated Azure Maps API for real-time geolocation of events and Cloudinary for efficient media upload and delivery.
- Rolled out real-time interaction features (likes, comments, join status) and a modern admin dashboard, boosting engagement by ~40%.

Personal Finance Visualizer| *MERN Stack (MongoDB, Express.js, React, Node.js) | Apr 2025 – May 2025*   **Demo**

Developed a full-stack personal finance tracker used to monitor income, expenses, and budgeting across multiple categories.

- Designed interactive dashboards delivering real-time insights for 100+ transactions and monthly budget goals.
- Integrated Recharts to visualize spending patterns, savings trends, and category-wise expense distribution.
- Deployed to Render with a MongoDB-backed live environment, ensuring 100% persistent storage and smooth mock-free data flow.

Mobile Confiscation Management System| *MERN Stack | May 2024 – Jul 2024*   **Demo**

Digital system for recording, tracking, and managing confiscated student devices, replacing manual processes in academic environments.

- Designed a QR-based tracking system for 100+ devices spanning 3 departments.
- Implemented secure admin login with JWT, complete CRUD features, and advanced search (**<1s lookup** on 500+ records).
- Delivered a modern, mobile-first UI ensuring consistent performance and usability on both desktop and tablet platforms.

Student Permission Connect | *MERN Stack (MongoDB, Express.js, React, Node.js) | Jan 2024 – Apr 2024*   **Demo**

Digitized the student permission request process to reduce manual handling and improve administrative efficiency in academic institutions.

- Dynamic secure, role-based dashboards for 1,000+ students and 10+ HoDs using JWT and session handling.
- Cut request approval time by over 60% (from 3 days to <1 day) by automating submission, review, and tracking.
- Enabled real-time status updates and processed 1,200+ permissions, improving transparency across departments.

Face Emotion Recognition | *Python, TensorFlow | Aug 2023 – Oct 2023*   **Demo**

Architected a deep CNN-based system for real-time classification of facial emotions from static image inputs, achieving high inference speed and accuracy.

- Built and trained a CNN on 35,000+ images (FER2013) to classify 7 distinct emotions with 87% test accuracy.
- Tuned dropout layers, activation functions, and optimizers for enhanced performance.
- Achieved 87% model accuracy after optimizing hyperparameters and dropout layers.

EXPERIENCE

Web Developer – College Website Project

Sri Vasavi Engineering College | **Jan 2024 –May 2025**

- Contributed to the development of the official college website accessed by 3,000+ students and staff.
- Collaborated with faculty and developers to design responsive, user-friendly pages using HTML, CSS, and JavaScript.

SKILLS

- *Programming Languages:* Python, C++, DSA in Java
- *Machine Learning Tools:* Scikit-learn, TensorFlow, Keras, OpenCV, MediaPipe, NumPy, Pandas
- *Web Development:* HTML, CSS, JavaScript, React.js, Node.js, Express.js
- *Databases:* MySQL

CERTIFICATIONS & LEADERSHIP

- **Microsoft Azure AI Fundamentals** – Certified (2024)
- **AWS Cloud Computing** – Brain-O-Vision Certified (2022)
- Participated in **AWS Cloud Hackathon (2023)** and built a cloud-native prototype demonstrating scalable service deployment on AWS.
- Conceptualized and delivered 6+ presentations on emerging AI/ML technologies at **Google Developer Group (GDG)** events
- Orchestrated a hands-on GitHub workshop at Sri Vasavi Engineering College, guiding 60+ students through version control and collaborative coding, elevating comprehension by 40%.
- ServiceNow Certified System Administrator (CSA)
- ServiceNow Certified Application Developer (CAD)