VAMSI POLIPARTHI

Vizianagaram, India | Phone: 6281475438 | Email: vamsipoliparthi13@gmail.com

PROFESSIONAL SUMMARY

Results-driven Full Stack Developer and AI Engineer skilled in Python, Django, and Flask. Experienced in building scalable web applications, integrating REST APIs, training computer vision models (CNN, YOLO), and deploying AI solutions.

EXPERIENCE

AI Research Intern (Stipend Based, Part-Time) | Kapil Agro, Hyderabad, India May 2025 – Aug 2025

- Developed CNN models for mango tree leaf disease prediction tuned for regional agricultural conditions.
- Built YOLO-based mango tree detection models for both images and field videos to support real-time monitoring.
- Converted raw agricultural video footage into structured image datasets by extracting and labeling key frames.
- Built annotated datasets with bounding boxes for mango tree detection and disease classification in local crops.
- Applied preprocessing and data augmentation to improve model robustness across lighting, angles, and environments.

TECHNICAL SKILLS

- Languages: Python, C++, SQL, JavaScript, HTML, CSS,java
- Frameworks/Libraries: Django, Flask, Pandas, NumPy, Scikit-learn, OpenCV, YOLO, Deep Learning
- Databases/Tools: MySQL, SQLite, Jupyter Notebook, Kaggle
- Core: Data Structures, Algorithms, Object-Oriented Programming (OOP), Agile Methodology

EDUCATION

- **B.Tech – Computer Science & Engineering** | MVGR College of Engineering, Vizianagaram — Expected May 2026 | GPA: 7.46
- **Intermediate (MPC)** | Narayana Junior College, Vizag — May 2022 | 90.2%
- **SSC** | Sri Chaitanya School, Vizianagaram — April 2020 | 98%

PROJECTS

Vehicle Rental Web Application | Django, HTML, CSS, JavaScript, SQLite

- Developed a responsive vehicle rental platform with secure user authentication and booking flow using Django ORM.
- GitHub: **https://github.com/VAMSIPOLIPARTHI/vechile-rental**

Telemedicine Platform | Flask, HTML, CSS, JavaScript, CNN

- Built a full-stack healthcare system with secure authentication, smart appointment booking, and lab report management.
- Integrated AI models (TensorFlow CNN) for anemia detection from blood smear images.
- Enabled role-based access for patients, doctors, and administrators with analytics and performance tracking.
- GitHub: **https://github.com/VAMSIPOLIPARTHI/swasthya**

Emotion Detection System | Python, OpenCV, Machine Learning

- Implemented a real-time emotion detection system using webcam face input and OpenCV.
- Optimized model and pipeline to achieve around 90% classification accuracy.
- GitHub: **https://github.com/VAMSIPOLIPARTHI/emotionsdedcation**

CERTIFICATIONS AND ACHIEVEMENTS

- Top 5 Winner (out of 100+ teams) – AgriTech Hackathon by KIT Skill Hub and Pavaman Technologies.
- Developed AI Smart Crop Monitoring System for real-time crop health alerts and insights.
- Selected for AgriTech internship interview round to work on real-time industry projects.
- Cisco: Programming Essentials in C, Cybersecurity Essentials, IT Essentials, Introduction to Packet Tracer.
- NPTEL: Cloud Computing.