VENNAPUSA GIRIVARDHAN REDDY

AI & Web Developer | Machine Learning & Computer Vision Enthusiast
Simhadripuram, Pulivendula, Kadapa (Dist.), Andhra Pradesh – 516454
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Professional Summary

Motivated Computer Science graduate with hands-on experience in AI, Machine Learning, Web Development, and Computer Vision. Proficient in Python, Flask, PyTorch, TensorFlow, and real-time application development. Experienced in building projects such as AI resume analyzers, real-time number plate scanners, voice-controlled assistants, and AI-powered oral cancer detection systems. Skilled in problem-solving, designing interactive applications, and delivering end-to-end software solutions. Enthusiastic about leveraging emerging technologies to build impactful software.

Education

Kalasalingam Academy of Research and Education (KARE) — *Krishnankoil, Virudhunagar District – 626126, Tamil Nadu, India*
Bachelor of Technology (B.Tech) – Computer Science and Engineering
Cgpa:-7.47 — **2022 – Present**

Sri Chaitanya Junior College — *Tiruchanoor ,Tirupati, Andhra Pradesh,India*
Intermediate(MPC)
Percentage:- 75.3% — **2020 – 2020**

Sri Vivekanandhana High School — *Simhadripuram, Pulivendula, Kadapa (Dist.), Andhra Pradesh*
Secondary School Certificate (SSC)
Percentage:-96.6% — **2019 – 2020**

Projects

AI Resume Analyzer — **Ongoing**
Skills: Python, Flask, Streamlit, pyttsx3, SpeechRecognition, OpenAI API

- Built a web application to evaluate resumes against job-specific skills using Python, Flask, and Streamlit.
- Implemented AI-powered mock interviews with voice input and real-time feedback.
- Tracked emotional cues via webcam for interactive candidate assessment.

Real-Time Number Plate Scanner — **Jun 2025**
Skills: Python, OpenCV, EasyOCR, Flask, Streamlit, Backendless

- Built a real-time number plate scanning system using Python and OpenCV.
- Implemented OCR to extract text from webcam or image input.
- Matched extracted numbers against a Backendless database and displayed vehicle details.
- Generated downloadable PDF reports for vehicle information.

AI-Powered Oral Cancer Detection System — **Ongoing**
Skills: Python, Flask, PyTorch, OpenCV, Torchvision, FPDF, PIL, CNN (Convolutional Neural Networks), Grad-CAM, SMTP Email Automation

- Developed a web-based AI model to detect oral cancer from clinical images using CNNs (EfficientNetV2, ConvNeXt).
- Implemented Grad-CAM for explainable AI visualizations of suspicious regions.
- Designed automated PDF report generation with patient details, AI predictions, and risk assessment.
- Enabled email delivery of reports to patients and doctors via SMTP.
- Preprocessed images and applied CNN-based classification for accurate early-stage detection

Skills

- **Programming Languages:** Python, Java, JavaScript, HTML, CSS
- **Web & Backend Development:** Flask, MySQL, SQLite
- **Machine Learning & AI:** PyTorch, TensorFlow, Keras, CNN
- **Computer Vision & Tools:** OpenCV, Torchvision
- **Version Control:** Git