Revathi Katla

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· https://www.linkedin.com/in/revathi-katla-78824525b
· https://github.com/revathikatla04/100_Days_of_python_projects

EDUCATION

Malla Reddy Engineering College — Hyderabad, India
Bachelor of Engineering, Computer Science & Engineering, **GPA: 9.31/10** — 2022-2026

Alphores Junior College — Karimnagar, India
Intermediate, M.P.C, **Percentage: 96.4** — 2020-2022

Vasant Valley High School — Karimnagar, India
10th grade, **GPA: 10/10** — 2019-2020

INTERNSHIP EXPERIENCE

Next24tech Technology & Services — Nagpur, India
AI-ML Development Intern (Remote): — 20/05/2024 - 20/07/2024

- Developed a lane detection system using Python, OpenCV, and Deep Learning techniques to improve road safety. Achieved 95% accuracy in detecting lane markings under diverse weather and lighting conditions, providing real-time navigation feedback to reduce accident risks.
- Plant Leaf Disease Detection System: Designed an AI-driven solution leveraging TensorFlow, Keras, and Convolutional Neural Networks (CNNs) for early detection of plant leaf diseases. Achieved 92% classification accuracy and created an intuitive, mobile-friendly interface to empower farmers with actionable insights.

ACADEMIC PROJECTS

TALKWHEEL

- Developed a smart wheelchair prototype using ESP32, controlled by voice commands via the Google Speech-to-Text API.
- The system interprets spoken instructions (e.g., "go forward") and sends them to the ESP32, which drives the wheelchair using a motor driver module.
- For safety, ultrasonic sensors are integrated to detect obstacles and automatically stop or reroute the chair to prevent collisions.
- This low-cost solution aims to assist elderly and disabled individuals by offering hands-free, safe, and intelligent mobility.

ROAD ACCIDENT SEVERITY DETECTION AND HOSPITAL RECOMMENDATION SYSTEM

- Built a deep learning-based system using Convolutional Neural Networks (CNNs) to classify road accident severity (e.g., minor, major) and recommend the most suitable hospitals.
- Achieved high model accuracy (above 90%), verified through extensive testing including SVM, Random Forest, and Decision Tree classifiers.
- Utilized Python, TensorFlow, Keras, Scikit-learn, NumPy, and Pandas, and performed validation via confusion matrices and real-world image inputs. The system processes accident scene images, predicts severity, and provides ranked hospital recommendations based on proximity, specialization, and capacity–enabling faster emergency response and optimized healthcare resource allocation.

CERTIFICATIONS

- *CISCO certification in Python and IT Essentials.*
- *COURSERA Python Certification.*
- *We Alpha Cohort 3 completion Certificate from WE HUB.*
- *CambridgeC1 level Certification.*
- *Oracle Cloud Infrastructure 2024 Generative AI Certified Professional.*
- *Infosys Springboard Programming Fundamentals using Python - Part 1&2 completion Certification.*
- *Pearson MePro Level 10 Certification.*
- *Work Readiness Mentoring Program (March 2024 - January 2025) – Mentor To Go, supported by Microsoft.*
- *NPTEL Programming, Data Structures and Algorithms Using Python Certification with 83%*

SKILLS AND INTERESTS

Programming Languages - *C, Python, Java, Data Structures using Python*
Web development - *HTML, CSS, JavaScript*
Tools - *MS – Word, Power Point Presentation*
Databases - *MySQL*
Soft Skills - *Project Management, Communication and Problem solving.*