Shirish Upadhyay

+91 8317326735 upadhyaycreesh@gmail.com
linkedin.com/in/shirish-upadhyay-6b8246259 github.com/shirishupadhyay

Profile

Computer Science student specializing in AI/ML with hands-on experience in deep learning, computer vision, and backend development. Proficient in Python, TensorFlow, OpenCV, and FastAPI. Passionate about building scalable AI systems to solve real-world problems.

Technical Skills

Languages: Python, C++, C, JavaScript
ML Frameworks: TensorFlow, PyTorch, Scikit-learn
Data Libraries: NumPy, Pandas, OpenCV
Databases: MongoDB, SQL
Tools: Git, Linux, Google Colab, AWS, MongoDB Atlas
Soft Skills: Open-source collaboration, debugging, technical communication

Education

Garden City University **2022 – 2026 (Expected)**
B.Tech in Artificial Intelligence and Machine Learning — CGPA 9+/10 *Bengaluru, India*

Experience

Open Source Contributor – reNgine **Jul 2022 – Aug 2022**
Automated Reconnaissance Framework — Remote

- Contributed to reNgine's Python modules to enhance automated recon workflows for cybersecurity.
- Resolved core bugs and merged 5+ pull requests after collaborating with open-source maintainers.
- Improved data parsing and detection efficiency within Django-based components.

Training and Internship – Greentick **May 2023 – Jul 2023**
Manual Testing – Web App Test Case Management — Remote

- Executed 50+ manual test cases across Greentick modules; logged test runs in structured reports.
- Created and maintained BRD outlining app features, user flows, and access roles.
- Assisted with integration testing, bug tracking, and release validation cycles.

Projects

Facial Recognition Attendance System — *Python, OpenCV, dlib, Pandas* **Jul 2024 – Aug 2024**

- Built a system for automated attendance logging using dlib-based facial recognition.
- Achieved 90%+ face match accuracy across 100+ students in variable lighting conditions.
- Reduced manual tracking by 80% using CSV-based Pandas export automation.

Maize Crop Detection Model — *Python, Roboflow, OpenCV* **Aug 2024 – Sep 2024**

- Built a real-time maize detection system using Roboflow-trained datasets.
- Achieved 85% accuracy on video/image inference pipeline tested on 50+ samples.
- Reduced manual field inspection time by 60% through CV automation.

Full-Stack Web App (CRUD) — *FastAPI, MongoDB Atlas, HTML/CSS/JS* **Dec 2024 – Jan 2025**

- Developed a CRUD platform managing 1000+ records using async FastAPI endpoints.
- Integrated secure JWT login and optimized DB performance with query indexing.
- Improved frontend performance by 30% through lazy loading and efficient state updates.

YOLOv8 Object Detection App — *YOLOv8, Streamlit, OpenCV, gTTS* **Jul 2025**

- Built real-time object detection app supporting webcam/image/video at 15+ FPS.
- Enabled object-based voice feedback every 5s using multithreaded gTTS integration.
- Boosted UX by 40% via annotated image download and responsive Streamlit interface.

Achievements and Certifications

- **Amazon ML Hackathon – Participant** *Sep 2024*
  Built a feature extraction pipeline for structured data classification. Applied EDA and ensemble modeling (XGBoost) to boost accuracy by 12%.
- NDG Linux Unhatched – Cisco Networking Academy (Jun 2023)
- Python Essentials – Cisco Networking Academy (Mar 2023)