

Shreyas Datar

+91 89898 22443 | shreyasdatar339@gmail.com | [Portfolio](#) | [LinkedIn](#) | [Github](#) | [LeetCode](#)

SUMMARY

Computer Science undergraduate specializing in Computer Vision and Applied ML, with hands-on experience training detection models, deploying ML systems, and building end-to-end inference pipelines

EDUCATION

Lakshmi Narain College of Technology

B.Tech in Computer Science: AI/ML - CGPA 7.79

Bhopal, Madhya Pradesh

Nov. 2021 – June 2025

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, SQL

Frameworks: TensorFlow, PyTorch, OpenCV, Scikit-learn, LangChain, Flask, FastAPI, Node.js

Cloud Platforms: AWS (EC2, S3, IAM), GCP (Compute Engine)

Developer Tools: Git, GitHub, Linux (Debian), Jupyter Notebook, VS Code, Docker, PyCharm, Tensorboard

Spoken Languages: English (Native), Hindi (Native), Marathi (Intermediate), Spanish (Beginner/DELE A1)

PROJECTS

AutoPercept | OpenCV, HuggingFace, PyTorch, Ultralytics

- Built an autonomous vehicle perception pipeline for object detection, counting, and monocular depth estimation
- Trained a Detection model on a **YOLOv8** to detect and count traffic elements, achieving **89.5% mAP50**
- Used a Pre-Trained **Visual Transformer**, DPT-Hybrid (MiDaS 3.0) for Zero Shot monocular depth estimation
- Developed a GUI wrapper for streamlined model loading and inference selection, enhancing usability

Self-Hosted Cloud Storage | Raspberry Pi, Flask, JavaScript

- Designed and deployed a self-hosted cloud storage platform on a **Raspberry Pi 5** for secure file sharing
- Implemented a **Flask** backend for authentication, user profiles, access control, and file metadata management
- Built dynamic frontend pages using JavaScript and Jinja templates for user dashboards and file operations
- Optimized file delivery by offloading large file serving to **Caddy**, reducing request blocking and latency by **~80%**
- Configured **Cloudflare DNS** and **Reverse Tunnel** to securely expose the service without direct public IP access

TreeSense Imaging | TensorFlow, Flask, OpenCV, C++

- Built a computer vision pipeline to automate tree enumeration from high-resolution satellite imagery
- Trained and analyzed object detection algorithms (YOLOv8, SSD and R-CNN) for large-scale aerial image analysis
- Implemented key Image Processing Techniques such as **Binary Image Thresholding** and **Blob Detection**
- Developed an advanced forest path planning algorithm using **Dijkstra's algorithm** with satellite imagery

POSITIONS OF RESPONSIBILITY

Team Captain

Smart India Hackathon

Aug. 2023 – Dec. 2023

- Effectively coordinated activities among diverse team segments, including frontend, backend, and ML subgroups
- Achieved an **All India Rank (AIR) 6** for the given problem statement category, among 230+ competing teams

Head of Department, Event Management

LNCT SAE Club

Apr. 2023 – Apr. 2025

- Supervised successful organization and participation of SAE Club in BAJA SAEINDIA and ATVC Pune
- Worked with team and tournament organizers to ensure seamless event logistics for the participants

Senior Member, Steering/DevOps Department

LNCT SAE Club

Apr. 2022 – Apr. 2025

- Developed Python scripts for numerical analysis and simulations, automating complex processes for the club
- Used ADAMS, Solidworks, and Lotus Shark for simulations, developed data visualizations for clear communication
- Qualified SAEINDIA's mBAJA preliminary & virtual rounds to participate in the Finals at NATRAX '23 & '24