Shivani Kshirsagar

kshivaniofficial@gmail.com | leetcode.com | linkedin.com | github.com | portfolio

EDUCATION

Vishwakarma Institute of Technology   Pune, India
BTech Artificial Intelligence and Data Science (CGPA - 8.67)   *July 2026*

AG Patil Polytechnic Institute   Solapur, India
Diploma in Computer Engineering (90.97%)   *July 2023*

ST Thomas English Medium School   Solapur,India
10th Grade (ICSE)(86.7%)   *July 2020*

PROJECTS

Part Number Recognition System (Under NDA)
- Developed and deployed a production-ready backend using **FastAPI**, handling model serving, API routing, and integration with front-end interfaces.
- Contributed to **training and optimizing a Vision Transformer (ViT) model** and ensured its efficient deployment in a scalable backend architecture.
- Optimized Vision Transformer (ViT) model achieving **95**% accuracy on part number classification across **150**% unique part categories.
- Presented the final solution presentation and technical demo to an international jury panel.

Real Time Passenger Count System | *Contribution* | Github
- **Collaborated** with team members to **develop** the backend, troubleshoot issues, and optimize features, while working closely with the frontend team to enhance the overall **functionality** of the real-time system.
- Built a full-stack web dashboard to visualize real-time passenger data using **React.js**, **Flask**, and **MongoDB**.
- Developed backend APIs for processing live passenger counts and rendering trending visual analytics.
- Worked in collaboration with a hardware team that integrated **IoT sensors**, while focusing on the software components.

Brighbox : Estimate Solar Energy | *GitHub*
- Built a tool to estimate rooftop solar energy using satellite-derived radiation data and **OpenCV** techniques for rooftop boundary detection.
- Integrated **NASA POWER API** designed map-based UI to visualize solar panel placement recommendations.

POSITION OF RESPONSIBILITY

- Former Management Head, Team Quark, VIT Pune

TECHNICAL SKILLS

Core: Python, C/C++, Linux
Tools: Git, Vim, Postman
Frameworks:React Native Expo, Express,Node.js,FastAPI
Libraries: pandas, NumPy, React, OpenCV
Soft Skills: Fluent in English, Strong Analytical and Problem-Solving Skills, Adaptability

CERTIFICATIONS

Fundamentals of Deep Learning — Nvidia
Introduction to AI and Vector Search — MongoDB
Meta Frontend Developer — Coursera

ACHIEVEMENTS

- **Third Place TE AI Cup 2025** (Global AI Innovation Challenge by TE Connectivity)
- **Finalist** BNY Code Divas Challenge 2025
- **Winner – Ingenious Hackathon 2024** organized by ISA Pune Section, VIT
- **First prize** in State Level Paper Presentation (TechnoBlast 2023) held at SES Polytechnic.
- **First prize** in Paper Presentation - TechnoSprint 2023, Solapur