

Prachi Pravin Shende

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SKILLS

- **Languages:** Python, C++, C, HTML/CSS, SQL
- **Frameworks & Libraries:** OpenCV, MediaPipe, Pandas, Scikit Learn, PyTorch, Tensorflow, Hugging Face
- **Tools & Technologies:** GitHub, Git, ChatGPT, Docker, Google Colab, Linux, VS Code, Microsoft PowerBI,
- **Soft Skills:** Communication, Decision-Making, Multi-tasking, Team Collaboration
- **Neural Networks, Large Language Models (LLMs), Natural Language Processing, Transformers, Data Structures and Algorithms, Operating System, Probability & Statistics, Particle Swarm Optimization, Grey Wolf Optimization, Ant Colony Optimization**

EXPERIENCE

Machine Learning Engineering Intern | PropGrowthX | Oct 2025

- Developed and optimized regression and time-series forecasting models using advanced feature engineering and hyperparameter tuning.
- Containerized and deployed model inference services with FastAPI and Docker for scalable microservice-based architecture.
- Built automated ETL and evaluation pipelines to streamline data processing and improve inference throughput.

PROJECTS

1. AI Shredder & Redaction Tool | Python, BERT, PyTorch, Tesseract OCR | Sept 2025

- Built AI Shredder & Redaction Tool using Python, BERT (Hugging Face), PyTorch, Tesseract, and OpenCV.
- Detected and redacted sensitive data in documents/images with OCR and NLP entity recognition.
- Delivered a secure, efficient solution for privacy compliance and confidential document management.

2. Sahaay - Your Voice for A Better City | Python, YOLOv8, OpenCV, FastAPI | Nov 2025

- Built an AI-driven computer vision system to **crowdsourced civic issue reporting and system** from user-uploaded video using **YOLOv8 object detection**.
- Applied **OpenCV-based preprocessing and bounding box analysis** to improve detection reliability and reduce false positives.
- Developed a **model-backed REST API pipeline** for automated inference, data storage, and downstream analytics to support decision-making.

EDUCATION

- **Vishwakarma Institute of Information Technology** June, 2027 - Current
Bachelor of Technology (Artificial Intelligence) CGPA: 8.26
- **S F L Jr. College, Dhamangaon Rly** Sep 2020 - Mar 2022
Higher Secondary Certificate (HSC) Percentage: 87.50% (Rank 3)
- **H.G.K.V., Dhamangaon Rly** Jun 2019 - Jun 2020
Secondary School Certificate (SSC). Percentage: 93.20% (Rank 2)

CERTIFICATIONS

- Certified in CCNAv7: Introduction to Networks by **Cisco**
- CDAC's Basic AI Certification Course
- Certified in Artificial Intelligence and Machine Learning – **Unstop**
- Certified in **PowerBI** - **Udemy**

LEADERSHIP / EXTRA-CURRICULAR

- **Technical Team Member:** Perception'24, VIIT
- **Ass. Finance Lead Manager:** Entrepreneurship Development Cell, VIIT