

PRASHIK KADAM

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Summary

Final-year Computer Science undergraduate specializing in **Machine Learning** and AI-driven systems. Contributor to two patent-filed innovations in healthcare and agri-tech, with end-to-end experience in model development, explainability, and deployment. **GATE CSE 2025** qualified.

Education

PDPM IITDM, Jabalpur

2023-2027

B.Tech Computer Science And Engineering

Higher Secondary (Class XII) – Maharashtra State Board

Science Stream

Percentage: 84.6%

Experience

Indian Institute of Technology Ropar

May 2026 – July 2026

Software Engineering Intern, Vicharanashala Lab for Education Design (VLED Lab)

- Contributed to **Spurti**, an open-source ed-tech platform, using MERN Stack
- Submitted pull requests for React frontend feature development on a live production codebase

GitHub

Skills

Programming & Querying: SQL, MongoDB, C++, Java, JavaScript, Python

Machine Learning & Data Analysis: Scikit-learn, Pandas, NumPy, PyTorch, Flask, OpenCV

Developer Tools: Git, GitHub, VS Code

CourseWork: Operating System, DBMS, Computer Network, OOP, Data Structure, Algorithms

Projects

KrishiLink – Semi-Automatic Paddy Transplanter and Soil Analyzer | *Flutter, ESP32, Python*

GitHub

- Engineered a semi-automatic paddy transplanter with four-bar linkage kinematics
- Integrated RS485-based NPK, pH, EC, and ORP sensors via **ESP32** and Firebase RTDB
- Developed a Random Forest predictive model for fertilizer, irrigation, and salinity management recommendations.
- Developed Flutter mobile app with Provider architecture, **9-language support**, real-time alerts, and contextual AI chat

AI-Driven Osteoporosis Detection Using X-Ray Images | *Python*

GitHub

- Expanded knee X-ray dataset from ~1,900 to 8,175 samples through preprocessing and data augmentation
- Fine-tuned **ResNet-18** CNN achieving **93% testing accuracy**; applied **Grad-CAM++** for explainable AI and severity region localization
- Deployed as a Flask app with real-time inference, Grad-CAM++ heatmaps, and automated PDF patient report generation.

Drug Side Effect Prediction Using AI | *Python*

GitHub

- Analyzed **1,100+ drugs** across STITCH, SIDER & DrugBank; generated ECFP fingerprints from SMILES for molecular feature modeling
- Trained a **PyTorch MLP** for multi-label classification across **20+** side-effect categories, achieving $F_1 > 0.90$ for major adverse-event classes; deployed via an interactive Flask interface

Intellectual Property

- Patent Filed: **Vision-Guided Automatic Welding System**, IITDM Jabalpur (Under Processing)
- Patent Filed: **Semi-Automatic Paddy Transplanter**, IITDM Jabalpur (Application Under Processing)

Achievements & Certifications

- **GATE 2025 Qualified (Computer Science Engineering).**
- **Smart India Hackathon (SIH) 2025-** Selected among **top 38** teams out of **193** at college level.
- NPTEL–SWAYAM (12-week) **Silver Medal:** Business Intelligence & Analytics, Ethical Hacking