PRATIK S PAWAR

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PROFESSIONAL SUMMARY

Developer exploring how ideas turn into technology — learning, experimenting, and creating impactful solutions.

TECHNICAL SKILLS

Languages:	Python, JavaScript, SQL	**ML/AI:**	LLM APIs, TensorFlow, PyTorch, Scikit-Learn, OpenCV, YOLOv8, Pandas, NumPy
Web Technologies:	React.js, Streamlit	**Tools & Platforms:**	Git, Docker, Hugging Face, Figma, Power BI, Supabase, AI-Assisted Development Tools

EDUCATION

M.Sc. Information Technology — **2024 - 2026**
Ramnarain Ruia Autonomous College - Matunga , Mumbai | Expected: Apr 2026

B.Sc. Computer Science — **2020 - 2023**
V.P.M's R.Z. Shah College - Mulund , Mumbai | CGPA: 7.75 / 10

PROJECTS

Legal-Sakha – Indian Legal RAG Assistant

RAG | FAISS | BGE | Gemma 3n E4B | Gradio

GitHub

- Developed legal assistant using Retrieval-Augmented Generation to simplify Indian legal queries, indexing **42 legal documents** with FAISS for semantic search and context-aware responses.

FitFocus - Fitness & health calculators

React | TypeScript| Vite | Netlify

GitHub | Live Demo

- Developed modern fitness dashboard with **12+ health and fitness metric calculators** featuring responsive design and dashboard.

PotholeSahayak – Computer Vision Pothole Detection

Computer Vision | YOLOv8 | Python | OpenCV | Streamlit

GitHub | Live Demo

- Built real-time pothole detection system achieving **73.5% mAP@50** with YOLOv8 and deployed on Streamlit Cloud.

LungCheck – Cancer Risk Prediction

Machine Learning | Logistic Regression | GridSearchCV | Streamlit

GitHub | Live Demo

- Developed ML web application for lung cancer risk assessment using optimized Logistic Regression pipeline.

TreaQi – Environmental ML

Air Quality Prediction | Random Forest | Gradient Boosting | Streamlit

GitHub | Live Demo

- Predicted AQI with $R^2 = 0.981$ and recommended tree species for pollution mitigation.

RESEARCH PAPER & CERTIFICATIONS

Research: Cyber Security of National Critical Infrastructure — submitted to Viksit Bharat 2024.

Certifications: Machine Learning (IIT Bombay / AWS) | Solutions Architecture (AWS / Forage) | ML with Python (NSDC) | Cybersecurity (Mastercard / Forage)