

# Pradnyesh Keluskar

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## EDUCATION

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### Sardar Patel Institute of Technology (SPIT)

B.Tech in Computer Science and Engineering (CGPA: 8.45)

Mumbai, India

Aug. 2023 – Jun. 2027

### Sardar Patel Institute of Technology and Barclays

Minor in Banking Technology (CGPA: 8.43)

Mumbai, India

Jan. 2024 – Dec. 2026

## PROJECTS

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### CTF Platform - DevSecOps on AWS | Terraform, Jenkins, Trivy, AWS Jan. 2026 – Apr. 2026

- Provisioned AWS (EC2, RDS, ECR) via Terraform, with reproducible multi-environment deployments.
- Built Jenkins CI/CD pipeline with Trivy scan, that intercepted 6+ severe vulnerability before production.
- Deployed 3 containerized CTF challenges in isolated namespaces enforced via network policies.

### AeroScan - Aerosol Classification based on Satellite Data | GeoPandas Feb. 2025 – May 2025

- Trained Random Forest model on Aeronet and Satellite data, achieving 72% accuracy across 7 classes.
- Automated geospatial data collection and preprocessing with GeoPandas, reducing pipeline runtime.
- Expanded feature coverage through optimized feature selection while preserving 69% model accuracy.

### ModelGate - Smart API Gateway for ML Services | FastAPI, PostgreSQL May 2026 – Present

- Engineered a central ML API gateway handling auth and API keys and rate limiting for 5 ML endpoints.
- Designed PostgreSQL schema, analytics pipeline tracking 5K+ requests, latency, cache hits, and usage.
- Implemented Redis caching and request throttling, reducing repeated call latency by 82% and API abuse.

### DiaSense - Diabetes Risk Assessment Platform | Python, XGBoost, SHAP Jul. 2025 – Nov. 2025

- Built an XGBoost risk model on 253K+ records, achieving 97% accuracy using non-clinical features only.
- Preprocessed, feature-engineered dataset with SMOTE+ENN sampling, improving model performance.
- Integrated SHAP explainability layer surfacing the top 5 personalized risk factors per prediction.

## ACHIEVEMENTS

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### Velora 1.0 National Hackathon - Finalist

Team 404SkillNotFound

Apr. 2026

Pune, India

- Reached finals among 100+ teams nationwide; built **CertiChain**, a blockchain-based platform.
- Implemented Ethereum smart contracts to issue and verify tamper-proof academic certificates on-chain.
- Delivered a working demo and pitch to judges within 24 hours, with a team of 5.

## CERTIFICATIONS

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### Machine Learning Specialization

DeepLearning.AI & Stanford Online — Andrew Ng

Jan. 2026

- Applied regression, neural networks, ensemble methods, and unsupervised learning across 20+ hands-on programming assignments.

## SKILLS

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**Languages:** Python, Java, C, SQL (MySQL, PostgreSQL)

**ML & AI:** Scikit-learn, TensorFlow, XGBoost, NumPy, Pandas, Matplotlib, SHAP

**Frameworks:** FastAPI, Express.js, Redis, JWT

**Cloud & DevOps:** AWS, Docker, Kubernetes (k3s), Terraform, Jenkins, CI/CD

**Tools:** Git, GitHub, Linux, Jupyter Notebook, VS Code

**Concepts:** Machine Learning, Deep Learning, REST APIs, System Design