

Prasad Gade

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Education

Bhartiya Vidya Bhavan's Sardar Patel Institute of Technology Mumbai, India
B.Tech in Computer Engineering, Minor in Management SPJIMR (S. P. Jain Institute of Management & Research) Expected June 2027
CGPA: 9.26/10.0

Experience

Data Analyst Intern (Summer Internship) [Certificate Link](#) — June 2023 – July 2023
R3 Systems India Pvt. Ltd. *Nashik, India*

- Learned Data Analysis and Business Intelligence using Power BI. Developed various BI dashboards using datasets of companies
- Project: Delivered a sales dashboard for North Wind Traders, improving data visibility by 70%, by analyzing company datasets and designing interactive BI dashboards in Power BI.

Projects

UPI Analytics Platform – Data Engineering & Analytics Dashboard [Project Link](#) — March 2026

- Processed **9,026 JSON files** from 3 sources across **788 districts**/42 months by engineering a 4-stage medallion pipeline into a DuckDB star schema (4 dim + 4 fact tables).
- Quantified market duopoly via **HHI**, measured geographic inequality using **Gini coefficients**, and segmented adoption tiers with **K-Means** across **788 districts**.
- Forecasted UPI volumes using **Prophet/ARIMA**; delivered **68 visualizations** across **11-tab Streamlit + Power BI** dashboards, validated by **83 tests** via GitHub Actions CI/CD.
- Tech:** Python, DuckDB, Pandas, Plotly, Streamlit, Power BI, Prophet, ARIMA, Scikit-learn, K-Means, BeautifulSoup4, PyArrow, GitHub Actions

Lex Simulacra – AI-Powered Legal Courtroom Simulator with Multi-Agent RAG [Project Link](#) — November 2025

- Built an 8-agent legal simulation (defense, prosecutor, judge) achieving **99% citation accuracy** via a LangGraph workflow with state management and iterative debate.
- Reduced legal research time by **75%** across **100K+ documents** by architecting a RAG pipeline with BM25 re-ranking and **ChromaDB** vector indexing.
- Achieved **3.2× context relevance gain** and **60% engagement boost** via context compression (18K→15K tokens), hallucination detection, and real-time Streamlit UI with FastAPI SSE.
- Tech:** Python, LangChain, LangGraph, FastAPI, Streamlit, ChromaDB, Sentence-Transformers, Ollama LLM, Kanoon API, BM25, NLTK, Scikit-learn

Comparative Analysis of ML/DL Models for Intrusion Detection [Project Link](#) — October 2025

- Achieved **99.99% recall** and **100% precision** by benchmarking 6 models (DT, XGBoost, Transformer, Autoencoder, LR, NB) on the **8.6M-sample TII-SSRC-23** dataset (79 features).
- Demonstrated tree models were **12.8× faster** (4.7 vs 60 min) with **20× inference throughput** (1,005K/s), 10× fewer false negatives (13 vs 130), and full **SHAP** interpretability.
- Reduced classification errors by **30%** via hybrid **SMOTE**-undersampling to address extreme 1:6653 class imbalance across network traffic categories.
- Tech:** Python, Scikit-learn, XGBoost, PyTorch, TensorFlow, SHAP, Pandas, NumPy, Imbalanced-learn

Skills

Languages: Python, C, C++, Java, JavaScript

Frameworks: Flask, Django

Data-Science/ML: Pandas, NumPy, Matplotlib, Seaborn, PyTorch, Scikit-Learn, TensorFlow, Hugging Face, Keras, OpenCV

Databases/DevOps: SQL, MongoDB, Firebase, Git, GitHub

Business Intelligence Tools: Power BI

Soft Skills: Leadership (served as General Secretary, Student Council), Time Management, Public Speaking, Writing, Communication

Certifications

Data Science Job Simulation - Boston Consulting Group (Forage) [Certificate Link](#) — January 2025

- Simulated the role of a Data Scientist by performing EDA, feature engineering, modeling, and data-driven storytelling.

Accenture UK - Developer and Technology Job Simulation (Forage) [Certificate Link](#) — January 2025

- Explored SDLC, Agile vs Waterfall, DevOps trends, and Python debugging through hands-on simulation.

Introduction to Cloud Computing on AWS (Udemy) [Certificate Link](#) — July 2024

- Learned core AWS services like EC2, S3, RDS, DynamoDB, CloudFormation, and Docker for cloud-based architectures.

Java Training (IIT Bombay) [Certificate Link](#) — March 2024

- Completed structured Java programming training and cleared certification test.

The World of Computer Networking (Udemy) [Certificate Link](#) — June 2024

- Studied OSI/TCP-IP models, routing, IP addressing, and subnetting in depth.

Achievements

Winner - Tech Horizon National Hackathon [Project Link](#) — March 2025

- Secured 1st place out of 80+ national teams in a 36-hour hackathon by designing a full-stack donation platform that eliminated fund misuse via automated supplier-based routing and LLM-driven donor-NGO matchmaking.
- Built a transparent end-to-end ecosystem where funds reach verified vendors through smart request tracking, fraud-prevention logic, and a provable LLM-driven matchmaking algorithm, and delivered a polished demo and proof of concept that earned top recognition from industry judges across multiple evaluation rounds.
- Tech stack:** React, TypeScript, MongoDB, Vite, Tailwind CSS, React Router, ESLint, Context API. [Certificate Link](#)