



# Priyansh Saxena

Roll Number: 2022IMT089

ABV - IIITM Gwalior

Full-Stack Machine Learning Engineer

+91-7417513597

priyena.career@gmail.com

Transcendental-Programmer

Priyansh Saxena

Portfolio

## EDUCATION

Year	Degree / Certificate	Institute / Board	Percentage/CGPA
2022 - PRESENT	B.Tech (IT)	IIITM Gwalior	7.33
2022	Senior Secondary	CBSE Board	90.2%
2020	Secondary	CBSE Board	96.6%

## EXPERIENCE

### Machine Learning Engineer ↗ Teeny Tech Track

05/2025 - 06/2025

- Engineered **Persona RAG** framework leveraging **GPT-4.1** and **FAISS** to deliver sub-200ms personalized responses, and scaled to process **1K+** daily interactions with **99.9% uptime** via **GCP Kubernetes** and **GitHub Actions CI/CD**.
- Packaged microservices in **Docker** with **Kubernetes** orchestration, reducing deployment friction and release cycles by 60%.
- Developed Question Generation using **T5** and **PyTorch**, achieving **300ms** inference latency with **85% BLEU** and **88% ROUGE**.

### Open Source Contributions ↗ GFPGO, PeakSegOptimal, KCL, Krkn

03/2025 - 06/2025

- Enhanced **gfpop** with rule parameters and **PeakSegOptimal** unconstrained partitioning using **R/C++**; developed **plotModel** visualization and isotonic regression solver reducing segmentation errors by 25% through dynamic programming algorithms.
- Contributed 15+ PRs to **krkn-chaos** and **Meshery** ecosystems fixing critical application outage scenarios; implemented **exclude.label** feature and **pod\_selector** validation across 3 repositories enhancing chaos engineering reliability for enterprises.
- Resolved **KCL** language critical type safety issues including **math.floor** consistency and **schema-typed list** validation; improved

### Jaffa.ai ↗ Software Engineer Internship

07/2024 - 02/2025

- Engineered 8+ microservices using **Azure Document Intelligence/Function Apps** for document parsing, implementing robust **CI/CD** pipelines via **GitHub Actions** for automated deployment workflows.
- Architected **Graph RAG** system with **Neo4j** and **LangChain**, enabling multi-level retrieval strategies and community detection algorithms for context-aware financial document querying and analysis.
- Built financial analysis agent using **LangGraph** with function calling and DAG workflows, reducing analysis time by 75%.

## PROJECTS

### Privacy-Preserving Financial Data Generation System ↗

08/2024 - 12/2024

- Architected federated learning framework with **RAG integration** using **TensorFlow** and **Flask APIs**, enabling collaborative model training across distributed financial institutions achieving **85%** accuracy over **10+** rounds.
- Built **Streamlit** web demo with **RESTful APIs** for real-time credit scoring supporting **3+** concurrent clients with **sub-second** response times, deployed on **Hugging Face Spaces** for public access.
- Designed containerized server architecture using **Docker** and **Kubernetes** configurations, enabling scalable microservices.

### LLM Integrated Excel Plotter App ↗

03/2024 - 05/2024

- Fine-tuned **BART-large model (400M params)** for natural language chart interpretation, achieving **85%** query accuracy and contributing open-source deployment to **Hugging Face Spaces**,
- Built responsive **React frontend** with secure file upload component supporting **10MB+** Excel files, real-time data preview, and dynamic chart rendering with **1.2-second** average generation time.
- Deployed full-stack application using **Vercel** for **frontend hosting** and **Hugging Face Spaces** for backend API, implementing **CI/CD** pipeline with automated testing achieving **95%** code coverage.

## SKILLS

Category	Skills
Programming & ML	Python, C++, Java, GO, Kotlin, SQL, TensorFlow, Keras, Scikit-Learn, OpenCV, LangChain, LangGraph
Backend & Data	Django, Flask, FastAPI, Docker, Streamlit, MLflow, Selenium, BeautifulSoup, Apache Spark
Databases & Cloud	MySQL, PostgreSQL, MongoDB, Neo4j, AWS(EC2, S3), Azure, MQTT, CI/CD (GitHub Actions), Kubernetes

## ACHIEVEMENTS

- Secured **Institute Rank 5** in **ICPC 2024-25**, achieving the **highest rank** in the entire year batch.
- Attained **5-Star** rating on **CodeChef (2007)**, placing in **top 1%** of **200,000+** active competitive programmers globally.
- Achieved **Knight** badge on **LeetCode**, solving **600+** algorithmic problems with optimal solutions.
- Secured **Global Rank 57** in **CodeChef** contest among **19,600** participants, demonstrating competitive programming excellence.
- Achieved **Rank 765** in **LeetCode Weekly Contest 429** among **22,810** participants, solving **3/4** problems in **52** minutes.
- Distinguished as **top 264** students nationwide in **Indian Astronomy Olympiad 2021-22 (IAPT)** among **20,000+** students.