

Jitendra Kumar

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Skills

- Programming & Core:** Java, Python, DSA, OOPs, OS, DBMS, Probability & Statistics, Linear Algebra
- AI/ML:** Ensemble (XGBoost, LightGBM, RF), Deep Learning (CNN, LSTM, Transformer), RAG Systems, LangChain
- Frameworks & Libraries:** PyTorch, FastAPI, OpenCV, Docker, GitHub Actions, Prometheus, Grafana, AWS, Selenium
- DevOps & MLOps:** CI/CD, MLflow, DVC, Kubernetes, Postman, Minikube, AWS(EC2, S3, Lambda)

Experience

Jetking Swargate	Remote
Machine Learning Intern	Apr 2025 – Sep 2025
• Developed a document intelligence pipeline with LangChain and DeepSeek, reaching 92% retrieval accuracy.	
• Optimized LSTM-XGBoost models using MLflow and Docker , cutting training time by 40% .	
Outlier (Scale AI)	Remote
AI Model Evaluation Associate	Nov 2024 – Feb 2025
• Participated in large-scale LLM training and evaluation initiatives (Laurelin Sun, Blue Wizard).	
• Enhanced model reasoning and factual accuracy through iterative feedback cycles and cross-functional collaboration.	

Projects

Intelligent QA Automation Framework for Fintech Systems (GitHub)	Oct 2025
• Built a distributed QA automation framework using Selenium with 95% UI/API coverage.	
• Added MCP-based orchestration and PyTest unit tests, cutting manual QA effort by 60%.	
RAG-Powered Conversational AI with Vector Embeddings & Vector Database (GitHub)	Jun 2025
• Devised a Formula 1 chatbot using LangChain.js , Next.js , and Data Stacks with live web-scraped data.	
• Generated vector embeddings from 10+ data sources stored in a serverless vector database for fast search.	
• Implemented a responsive chat UI with Vercel AI SDK and secure API key management for real-time answers.	
Vehicle Insurance Data End-to-End MLOps Implementation (GitHub)	Feb 2025
• Developed an end-to-end ML pipeline for vehicle insurance prediction with data ingestion to deployment.	
• Orchestrated MongoDB Atlas , Docker , and GitHub Actions for modular, automated CI/CD workflow.	
• Launched on AWS EC2 with FastAPI for RESTful inference and S3 for model storage.	

Research & Publications

TPIN++: A Three-Stage Transfer Learning Framework for Physics-Informed Solar Disaggregation	Ongoing
• TPIN++: Physics-informed Transformer disaggregating monthly to hourly solar data via domain-adaptive calibration.	
• MSIN-V7: Multi-scale LSTM–Transformer ensemble using TPIN++ outputs for stable Delhi load forecasting.	

Achievements

- Secured Global **Rank 354th** - GeeksforGeeks Institutional Contest (among 40k+ participants)
- Advanced to **Top 30 teams** (out of 600+) in Smart India Hackathon.
- Solved** 400+ problems across [CodeForces](#)(1365), [LeetCode](#), [CodingNinjas](#), and [GeeksforGeeks](#).
- Achieved **3rd Rank** in CODE OFF DUTY Hackathon 2024 by developing an AI-powered defect detection system.

Certifications

- Machine Learning Specialization (Stanford University) | [DeepLearning.ai](#) 2025
- Machine Learning | [IIT Kharagpur](#) 2024
- Introduction to Large Language Models by Google cloud | [Coursera](#) 2023

Education

Lovely Professional University	Phagwara, Punjab
Bachelor of Technology Computer Science & Engineering CGPA: 7.3	Sep 2022 – Present
Arya Vidyapith School	Champaran, Bihar
CBSE XII Percentage: 70%	Apr 2020- Apr 2021