

# Bhavishya Pandit

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## Experience

### IBM, Senior AI Engineer

Bangalore, India  
Nov 2023 – Present

- Conducted multi-step, multi-class classification of user complaints, **enhancing model accuracy from 75% to 91.2%** through strategic oversampling via LLaMA 3.1 70B.
- Collaborated with a cross-functional team to architect an Agentic RAG pipeline, retrieving and generating answers from 6M+ IBM documents stored in S3 buckets.
- Worked closely with ML engineers to fine-tune retrieval heuristics and prompt engineering for Watsonx product queries, optimizing accuracy from 60% to 90%.
- Leveraged the existing vector database and conducted iterative experimentation, contributing to **\$10M+ in annual savings** for IBM's product team.
- Led the development of an agentic tool that generates high-level system architectures using multi-agent orchestration. Currently **used by 300+ AI Engineers**.

### Rakuten, Data Scientist

Bangalore, India  
Jul 2021 - Nov 2023

- Optimized ad spend with Meta Learners for uplift modeling and revenue prediction, using Shapley for feature importance. Built a Data Studio dashboard, **cutting costs by 27%** and **boosting revenue by 14.3%**
- Teamed up to build a time-series forecasting pipeline for 3,000+ e-commerce keywords using Prophet, ARIMA, and LSTM. Improved trend capture using seasonality detection, peak analysis, and cosine similarity, **reducing MAPE from 15% to 3%**.
- Led end-to-end deployment of the forecasting model, **driving INR 12M revenue** through accurate prediction of search string impressions.
- Orchestrated and engineered the security module for LLM-powered products, implementing real-time threat detection, prompt injection defences, and anomaly monitoring, ensuring robust model integrity and compliance.

## Technical Skills

**Generative AI:** LLMs (GPTs, Deepseek, Gemini, Llama), RAG, Agents, Finetuning LLMs, LoRA, QLoRA, PEFT, CLIP

**Programming Languages and Data Science:** Python, SQL, ML, CNN, RNN, Transformers, Computer Vision, NLP

**Databases and Storage:** PostgreSQL, MySQL, Vector DBs (Milvus, Chroma, FAISS), AWS S3, BigQuery, Elasticsearch

**Libraries and Frameworks:** PyTorch, TensorFlow, Hugging Face, LangChain, CrewAI, Numpy, Pandas, Sklearn

**Cloud and Deployment:** GCP (Vertex AI, Data Studio), Docker, Git, CI/CD, FastAPI, Streamlit, Docker

## Education

**Masters in Machine Learning**, University of Arizona

2023 - 2025

**Bachelor of Engineering - Computer Science Hons.**, Chandigarh University

2017 - 2021

## Co-curricular Achievements

- 2x Hackathon Winner for Gen AI Security and Content Generation (**won INR 5 Lacs**).
- Mentored hackathon teams on LLMs, RAG, and model optimization, guiding them to 1st and 2nd place wins, securing **INR 6 Lacs** across multiple competitions.
- AI Advisor to Govt of Uttarakhand & YC startups and Speaker at Ministry of Home Affairs, IITs and NITs.