# Prakul Jain

## AI/ML Engineer

I'm an AI/ML Engineer passionate about designing and deploying intelligent systems that blend machine learning with real-world scalability. I specialize in building LLM-Powered applications , RAG pipelines and production-grade APIs using tools like FastAPI , LangChain and Langraph. My experience spans across data science , model optimization and MLOps, with proven ability to deliver end-to-end AI solutions using PostgreSql , and modern vector database frameworks. I thrive on transforming complex data and AI models into practical, high-impact business tools.

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## EDUCATION

### Bachelor of Computer Application
Maharishi Dayanand Saraswati,University

*07/2022 - 05/2025*                                         *Ajmer*

### Intermediate (CBSE)
Makrana Public School

*04/2020 - 04/2022*                                        *Makrana*

## WORK EXPERIENCE

### AI/ML Engineer Trainee
Dotsquares India

*08/2025 - Present*                                          *Jaipur*
Achievements/Tasks

- Developed and deployed RESTful APIs with FastAPI for chatbot and business logic management.
- Designed and implemented CRUD operations and database schema using PostgreSQL.
- Built and optimized an AI chatbot using LangGraph and LangChain, integrating Retrieval-Augmented Generation (RAG) for contextual responses; enhanced pipeline latency and accuracy through prompt tuning and retrieval filtering, resulting in improved response quality
- Created and managed embeddings for semantic understanding and implemented a vector database for high-performance retrieval.

### AI/ML Engineer Trainee
REGex Software Services

*12/2024 - 08/2025*                             *Jaipur ,Rajasthan*
Achievements/Tasks

- Built ML models using scikit-learn for business forecasting and applied tuning to improve performance
- Deployed models with AWS SageMaker and Lambda for scalable, production-ready inference.
- Leveraged LLMs (Gemini, Bedrock) and prompt engineering to generate strategic business insights.
- Built ML models using scikit-learn for business forecasting and applied tuning to improve performance.

## SKILLS

Programming & Tools:
Python, SQL, GitHub, Jupyter Notebook, VS Code, Flask, FastAPI

Deep Learning: ANN, CNN, RNN, LSTM, TensorFlow, Hugging Face, LLMs, Transformers, RAG, Prompt Engineering.

Databases & DBA Skills: MySQL, Query Optimization, Access Control.

Machine Learning: Supervised & Unsupervised Learning, Feature Engineering, Generative AI, Vector Databases

MCP & MLOps: End-to-end model development, deployment automation.

## PERSONAL PROJECTS

Dotsy-Bot – AI-Powered Chat Assistant
 (08/2025 - Present)
- Developed a conversational AI chatbot integrating LangGraph and LangChain, powered by a Retrieval-Augmented Generation (RAG) pipeline for real-time contextual understanding
- Built RESTful APIs using FastAPI with full CRUD operations and PostgreSQL for data management.
- Deployed and tested scalable components ensuring seamless backend–AI integration for production readiness.

BeuatySyncPro - Smart Salon Management
 (06/2025 - 08/2025)
- Developed a Flask-based salon management web app with a SQL backend for handling services and user data.
- Integrated an AI-powered chatbot using LangGraph, Serper, Tavily, and LLM APIs for real-time, web-enhanced responses.

## CERTIFICATES

Google Cloud Vertex AI - Google Batches

HackCrux Hakathon - LMNIIT

Python (Advanced) - HakerRank

SQL (Advanced) - HakerRank

## LANGUAGES

English
*Full Professional Proficiency*

Hindi
*Full Professional Proficiency*