

# 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

01/2025 - Present

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

#### Machine Learning:

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

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

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

#### Databases & DBA Skills:

MySQL, Query Optimization, Access Control.

## 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.

### BeautySyncPro - 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) - HackerRank

SQL (Advanced) - HackerRank

## LANGUAGES

English

*Full Professional Proficiency*

Hindi

*Full Professional Proficiency*