

# Shivam Patel

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[linkedin.com](https://www.linkedin.com)

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[portfolio](#)

## Technical Skills

**Languages** : Python, Go, C++, SQL.

**Libraries & Frameworks** : NumPy, Pandas, Matplotlib, Seaborn, TensorFlow, PyTorch, LangChain, LangGraph.

**Tools** : Git, CI/CD (GitHub Actions), FastAPI, Vectordb (Chroma), Docker, CrewAI, N8n, Autogen, ollama, RAG Pipeline.

**Technical Domains** : Data Preprocessing & Exploratory Data Analysis, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Reinforcement Learning, Transformer architectures, LLM fine-tuning, Diffusion Models, MLOps, Cloud Platforms (Azure AI Foundry, AWS Bedrock), Model Context Protocol, Agentic AI workflows.

## Experience

### Unified Mentor Pvt. Ltd.

Jan 2025 – July 2025

Machine Learning Intern

Gurugram, Haryana

- Developed customer churn prediction models using Python and Scikit-learn, implementing XGBoost, Random Forest, and Logistic Regression models that achieved 88% recall in identifying churning customers from 10,000+ records.
- Performed hyperparameter optimization using GridSearchCV with 5-fold cross-validation, and Implemented class imbalance solutions using SMOTE and class weighting techniques, achieving balanced performance across precision (82%) and recall (88%) metrics.
- Assisted in packaging the model pipeline with a lightweight Flask API for demonstration and documented the entire process for the engineering team.

### Celebal Technology

May 2024 – July 2024

Data Science Intern

Jaipur, Rajasthan

- As a Data Science Intern, I Cleansed, preprocessed, and analyzed large datasets using Python (Pandas, NumPy) and SQL to extract actionable insights that informed strategic business decisions to derive actionable insights. I created informative data visualizations and dashboards for effectively communicate findings to stakeholders.
- Applied statistical concepts (hypothesis testing, correlation analysis) and data visualization techniques to support data-driven decision making across departments.

## Projects

### YouTube RAG Assistant | Python, Streamlit, LangChain, Gemini API, ChromaDB, YouTube Transcript API, Sentence Transformers

- Created a YouTube video learning tool using RAG architecture that enables interactive QA with YouTube video content, reducing information retrieval time by 60% compared to manual video reviewing.
- Implemented multi-modal features including automatic transcript summarization, quiz generation, and structured note-taking by leveraging Google Gemini API and LangChain for contextual understanding
- Optimized performance through intelligent text chunking and LRU caching, decreasing repeat processing time by 70% while maintaining 89% answer accuracy on technical content
- Built a user-friendly Streamlit interface supporting 4 interaction modes (Chat, Notes, Quiz, Analysis) with source citation and confidence scoring for educational transparency.

### JourneyGPT – Personalized Travel Assistant (LLM Agent System) | Python, FastAPI, Streamlit, Neo4j, Ollama, Weather API.

- Developed an end-to-end travel planning application featuring an LLM agent that interprets user requests to call backend functions (itinerary generation, weather fetch) or respond directly from its knowledge base.
- Implemented a local AI inference pipeline with Llama 3.2 (via Ollama) for local LLM processing, Neo4j for graph-based memory, FastAPI backend, and Streamlit frontend.

## Education

### JK Lakshmipat University

Aug 2021-June 2025

Bachelor of Technology in Computer Science and Engineering

Jaipur, Rajasthan

### IIIT Hyderabad

Jan 2023-April 2023

Visiting Student - UG, Computer Science and Engineering

Hyderabad, Telangana

## Extracurricular Activities

- 2Times Winner of Intra-University Annual Fest(Muquabala) In Chess at JKLU Jaipur (2022,2023). 4th Place in 10km marathon in IIITH (2023), 5th Place in 10km marathon in JKLU Jaipur. Intermediate Lawn Tennis and Badminton.