



# Aditya Patane

LLM Engineer

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M.Tech candidate at IIT Bombay with strong project portfolio in agentic LLM systems, QLoRA fine-tuning, and Neo4j-backed knowledge graphs. Passionate about translating research into user-facing applications.

## Work Experience

### LLM Engineer

PiHex Labs

Aug 2025 - Present

Building and fine-tuning LLM pipelines (QLoRA, RAG) for client-facing products.

### AI Intern

IndoAI Technologies

Jun 2024 - Aug 2024

Developed vision-language analytics for real-time CCTV feeds and optimized edge inference.

- Integrated BLIP & CLIP for context-aware scene understanding.
- Optimized latency of VLM inference for edge devices.

## Education

### Master of Technology in Geoinformatics Engineering

Jul 2023 - Jun 2025

IIT Bombay

Relevant Courses:

Machine Learning, Deep Learning, LLMs, Computer Vision

### Bachelor of Technology in Electronics & Telecommunication

Jul 2016 - Oct 2020

Government College of Engineering Karad

## Skills

### LLM & GenAI (Intermediate)

Ollama, LangChain, QLoRA, Neo4j, FastAPI

### Computer Vision (Intermediate)

YOLO, Vision Transformers, OpenCV

### Cloud & DevOps (Beginner)

Docker, Render, Google Cloud

## Projects

### JourneyGPT

Agentic itinerary-planning LLM system using Ollama + LLaMA with Neo4j for user preferences.

- FastAPI API
- Weather/news/map tools
- Graph-based QA

Technologies: Ollama, Neo4j, FastAPI

Roles: Lead developer

### IITB FAQ RAG Chatbot

LLaMA + RAG chatbot fine-tuned via QLoRA on a single GPU for campus FAQs.

- 70% improvement in contextual accuracy

Technologies: QLoRA, LangChain

Roles: Researcher

## Languages

English (Fluent)