

# Dhruv Ladani

AI & GenAI Engineer | Agentic Workflows & LLM Applications

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## PROFESSIONAL SUMMARY

Computer Engineering graduate (9.4 CGPA) specializing in building autonomous agentic systems and RAG pipelines. Experience designing multi-agent architectures using LangChain and LangGraph and optimizing LLM inference for production. Proven track record of deploying full-stack AI applications with React, Python, and Supabase.

## EDUCATION

**Product Management and Agentic AI Program,** 2025 – 2026 | Online  
Indian Institute of Technology, Patna

**Bachelor of Technology in Computer Engineering,** 2022 – 2026 | Gandhinagar, India  
Pandit Deendayal Energy University (PDEU), Gujarat  
CGPA: 9.4

## PROFESSIONAL EXPERIENCE

**AI Engineer,** Impresa.ai Consulting January, 2026 – Present | Ahmedabad

- Developed Python automation workflows for data validation and preprocessing to support downstream ML pipelines
- Worked on ML tasks including load disaggregation and load prediction, improving model input quality and performance
- Designed and experimented with prompt engineering techniques to optimize LLM outputs for internal use cases
- Optimized SQL queries for efficient data extraction and transformation in ML workflows
- Built reusable data utilities for scalable dataset preprocessing and feature preparation

**AI/ML Intern,** WebMobi360 (B2B AI Products) May, 2025 – August, 2025 | Remote

- Collaborated on the deployment of enterprise AI platforms, translating functional requirements into technical specifications for the engineering team.
- Assisted in testing and validation of ML model outputs to ensure alignment with edge-case scenarios and accuracy benchmarks.

**Mobile App Development Intern,** MitJayn Corporation October, 2024 – December, 2024 | Remote

- Owned the alpha testing program for a healthcare management platform serving patients and providers.
- Created structured test plans, onboarded testers, and consolidated feedback into more than 50 prioritized backlog items.
- Worked closely with stakeholders to define MVP scope, feature prioritization, and release readiness.
- Supported sprint reviews, bug triage, and preparation of release documentation.

## PROJECTS

**Agentic Compliance Auditor**, Self-Correcting RAG Compliance Assistant July, 2026

- Architected a self-correcting retrieval system combining CRAG and Self-RAG in LangGraph, with grading and query-rewrite nodes that re-retrieve when retrieved context fails a relevance check.
- Built a Ragas evaluation pipeline over a custom golden dataset, raising Context Precision from 68.9% to 81.8% and Faithfulness from 70.3% to 75.9% via hybrid search and reranking.
- Implemented multi-format ingestion (PDF, DOCX, CSV, JSON) into ChromaDB with Gemini embeddings; deployed the application live on Streamlit Cloud.

**Recruit-AI**, AI-Powered Recruitment Platform for SMBs December, 2025

- Architected a Multi-Agent System using GPT-4o to autonomously parse unstructured resume data and perform semantic matching against Job Descriptions.
- Engineered a RAG pipeline using Supabase Vector Store to retrieve context-aware candidate profiles, reducing hallucination rates in screening summaries.
- Deployed a full-stack MVP with React and Tailwind, integrating real-time WebSocket updates for agent status tracking.

**Agile Sprint Guardian**, Multi-Agent AI for Sprint Planning December, 2025

- Developed a Multi-Agent orchestration layer where distinct AI agents (PO, Tech Lead) communicate via structured JSON protocols to refine user stories.
- Implemented "Chain of Thought" prompting to ensure the Tech Lead agent accurately estimates complexity points based on historical data.
- Built a feedback loop that validates generated Acceptance Criteria against a rigorous schema before committing to the database.

**Smart Job Prep Assistant**, AI Resume and Interview Preparation Tool May, 2025

- Implemented an NLP parsing engine to extract keywords from Job Descriptions and calculate cosine similarity scores against user resumes.
- Optimized API latency by implementing asynchronous request handling for the OpenAI API, reducing report generation time by 35%.
- Instrumented custom event logging (telemetry) to capture granular error rates and funnel drop-off points without third-party bloat.

## SKILLS

**Programming Languages** (Python (Pandas, NumPy), JavaScript (React.js, Node.js), SQL.)

**GenAI & LLMs** (Gemini API, RAG (Retrieval-Augmented Generation), LangChain, LangGraph, Agent Development Kit, Vector Databases (Supabase, pgvector, chromadb), Prompt Engineering, Agentic Workflows.)

**Core Engineering** (REST APIs, Git, Docker, Firebase, CI/CD.)

## LEADERSHIP & ACHIEVEMENTS

**Tech Head,** Computer Society of India, PDEU

**App Development Lead,** ACM Student Chapter

**Odoo Hackathon Finalist**

**GATE 2025 and 2026 Qualified (CS/IT)**