

SHIVANI PARATE

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EDUCATION

B.Tech in Computer Engineering

Aug 2024 - April 2028

SVKM's NMIMS Indore

CGPA - 9.54

Atomic Energy Central School

March 2018 - March 2024

Class 10th: 93% — Class 12th: 87.8%

TECHNICAL SKILLS

Programming Languages	Python, C++
Backend Development	FastAPI, Flask, REST API's, Streamlit
Databases	MySQL, MongoDB, ChromaDB, Firebase
AI/ML Technologies	Generative AI, AI Agents, LangChain, RAG, LLM API's, Deep Learning, Neural networks, Pytorch, Scikit-Learn, YOLO, OpenCV, Hugging Face
Libraries	Pandas, Numpy, Matplotlib, Seaborn
DevOps	Google Cloud Platform, Docker, Git

PROJECTS

[Fake Job Detection](#)

NLP, Transformers, Semi-Supervised Learning, LLM Integration

- Curated a **hybrid dataset** [🔗] by integrating labeled Kaggle/UCI data with manually scraped real-world job scams to enhance model generalization.
- Architected a **semi-supervised DistilBERT pipeline** utilizing confidence-based pseudo-labeling to extract patterns from large-scale unlabeled job advertisements.
- Engineered validation tools using **Sentence-BERT** and **TF-IDF** to detect semantic mismatches between job titles, descriptions, and required skill sets.
- Optimized fraud risk assessment** by grounding **Gemini LLM** reasoning with **BERT embeddings** and similarity scoring to ensure high-fidelity, fact-based outputs.
- Deployed a Streamlit application** for real-time visualization and evaluation of job posting risks, streamlining scam detection for end-users.

[AI Research Assistant for Literature Review](#)

RAG, LangChain, Sentence Transformers, ChromaDB, Google Gemini, Streamlit

- Built an **AI-powered Research Assistant (RAG system)** at Alpha One Labs enabling natural language question answering over uploaded research PDFs.
- Designed and implemented an **end-to-end RAG pipeline** including PDF ingestion, text extraction, semantic chunking, embedding generation, vector storage, and LLM-based response generation.
- Integrated **LangChain** for pipeline orchestration, **Sentence Transformers** for embeddings, **ChromaDB (Cloud-ready)** for scalable vector search, and **Google Gemini** for answer generation.
- Developed a **multi-user, session-isolated architecture** ensuring per-user document access, secure environment-based secret management, and a **production-ready Streamlit frontend** deployment.

LLM Benchmarking Dashboard

- Developed a **Streamlit-based LLM** benchmarking dashboard to compare Gemini (**gemini-2.5-flash**) and Groq LLaMA (**llama-3.3-70b-versatile**) models.
- Integrated **Gemini API** and **Groq API** for real-time prompt evaluation.
- Analyzed **latency, token usage, and throughput (tokens/sec)** for performance comparison.
- Visualized benchmarking results using **Plotly** for data-driven model selection.

ACHIEVEMENTS

NPTEL Course Topper - Data Structures and Algorithms	July 2025 - October 2025
5th Position at CodeVerse VIT Bhopal Hackathon	June 2025
Open Source Contributor for Alpha One Labs	December 2025 - present