

# Abhinav Shrimali

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🐙 GitHub

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## EDUCATION

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**Dayananda Sagar College of Engineering, Bengaluru**

*B.E. in Computer Science and Design*

Sept 2023 – Sept 2027

*CGPA: 8.96/10.0*

## TECHNICAL SKILLS

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**Programming:** Python, Java, C++, C, FastAPI, OOPS

**AI/ML:** LangChain, LangGraph, Transformers, PyTorch, Scikit-learn, LLMs, NLP, RAG, Vector Search, Embeddings, Prompt Engineering

**Backend:** FastAPI, REST APIs, Microservices, Uvicorn, Pydantic

**Databases:** PostgreSQL, MySQL, MongoDB, SQLite, Qdrant (Vector DB)

**Data Tools:** Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook

## PROJECTS

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**InterXAI (GitHub)**

Sept 2024 – Nov 2024

- Developed AI interview automation system reducing coordination time by 70%.
- Built agent-based workflows for dynamic question generation and NLP scoring.
- Implemented Redis caching and Docker for scalable inference.
- Added admin panel, analytics dashboards, and candidate scoring system.

**Bhagavad Gita RAG Assistant (GitHub)**

December 2025 - Present

- Developed a LangGraph-based RAG chatbot providing grounded, explainable answers from the Bhagavad Gita.
- Implemented intent detection to route queries across QA, emotional guidance, and verse generation agents.
- Built full-stack architecture using Streamlit, FastAPI, Qdrant, and Groq LLM (LLaMA-3.1-8B).
- Ensured hallucination-free responses using vector search over embedded scripture data.

**Student Marks Predictor (GitHub)**

October 2025 - Present

- Built a FastAPI-based ML service for predicting student marks using structured inputs.
- Compared and deployed the best-performing regression model based on  $R^2$ .
- Implemented preprocessing and inference pipelines for real-time predictions.
- Exposed predictions via REST API (`/predictdata`) with JSON I/O.

**Multilingual Movie Recommender (GitHub)**

October 2025 - Present

- Developed a context-aware movie recommender using collaborative filtering and content-based similarity.
- Incorporated mood, time of day, weather, and language features for personalized recommendations.
- Engineered features from user, movie, and rating datasets and trained an XGBoost classifier.
- Enabled multilingual recommendations including Hindi, Telugu, Malayalam, and Kannada.

## ACHIEVEMENTS

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- Winner – HacktoCrack: Blockchain EHR + ML accident detection.
- Smart India Hackathon 2025 — College-level qualifier, ranked top 50 of 120+ teams.
- Secured 4<sup>th</sup> place in Hackedemia Hackathon (National College, Jayanagar).