

HIMANSHU KUMAR

Computer Science Undergraduate | Machine Learning & GenAI Enthusiast

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SUMMARY

Computer Science undergraduate specializing in Machine Learning and Generative AI with hands-on experience building end-to-end AI systems. Skilled in designing scalable ML pipelines, developing RAG-based applications, and deploying production-ready solutions. Strong focus on system design, retrieval optimization, and real-world problem solving.

EDUCATION

Bachelor of Technology (B.Tech) – Computer Science & Engineering
Purnea College of Engineering, Bihar Engineering University
2023 – 2027

SKILLS

Python, JavaScript, C++ | Machine Learning, Generative AI, RAG | LangChain, Pandas, Scikit-Learn | FAISS, Streamlit | Git, Docker, GitHub Actions

PROJECTS EXPERIENCE

[AutoML Studio Pro](#) (Python, Streamlit, Scikit-Learn, Vercel, Render)

Developed an end-to-end AutoML web application that allows users to upload datasets and automatically perform exploratory data analysis, preprocessing, model training, and evaluation. Implemented automated ML pipelines and deployed the application using Vercel and [Render](#) to enable real-world access.

[GenAI Study Bot — AI Powered Study Assistant](#) (Python, Generative AI)

Built an AI-powered study assistant that helps users understand concepts through interactive and contextual responses. Integrated Generative AI to deliver topic-focused explanations and improve learning efficiency.

[RAG-Based AI Chatbot \(Explainable RAG System\)](#) (Python, LangChain, FAISS, LLaMA 3, Streamlit, Docker, GitHub Actions)

Built a RAG-based AI system for document QA using FAISS and LLMs, with a modular pipeline for ingestion, chunking, embedding, and retrieval. Optimized performance through batching and Top-K tuning, and added explainability via chunk-level visibility and similarity scores. Deployed using Streamlit, Docker, and CI/CD pipelines.

CERTIFICATIONS

Machine Learning & Generative AI – Simplilearn | Python Programming – Internshala

ADDITIONAL DETAILS

Hands-on learner through real-world projects | Regular DSA practice on LeetCode | Quick to adapt to new tools and technologies