



## Adarsh Kumar Bhardwaj

Roll No.: 2022ug3020

B. Tech

CSE (with DS and AI)

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## EDUCATION

### Indian Institute of Information Technology Ranchi

2026

B.Tech in Computer Science and Engineering (with spec. in DS and AI)

CGPA : 8.44

## TECHNICAL SKILLS

**Languages:** Python, SQL, Linux

**Developer Tools:** Git, GitHub, Docker, n8n

**Frameworks:** PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Hugging Face Transformers, LangChain, FastAPI, Gradio, Streamlit, Flask

**Cloud/Databases:** Render, MySQL, Pinecone, FAISS, AWS

**Coursework:** Machine Learning, Deep Learning, Natural Language Processing, Large Language Models, Retrieval-Augmented Generation (RAG)

## PERSONAL PROJECTS

### ArXiv Paper Recommender

October 2025

Tools: Python, Transformers, FAISS, Hugging Face

- Built a smart paper recommendation system for **ArXiv** using semantic embeddings and **TF-IDF** hybrid search using more than **400000 papers**.
- Added **reranking** with Cross-Encoder and pseudo-relevance feedback to improve recommendation quality.
- Leveraged **FAISS** for fast vector search and ensured robust fallback keyword search for better results and deployed everything on Hugging Face.

### HealthGuide-Chatbot

July 2025

Tools: Python, Langchain, Pinecone, Gemini API, Flask

- Designed and implemented an AI-powered medical chatbot capable of retrieving relevant health information from a 637 page medical knowledge base using **RAG (Retrieval-Augmented Generation)**.
- Built the data ingestion pipeline, including document parsing, chunking, and embedding storage in **Pinecone** for efficient semantic search.
- Integrated **Gemini API** with a Flask backend for dynamic response generation with custom prompt tuning for short/long-form answers based on query complexity.

### Hindi-Article-Summarizer

June 2025

Tools: Python, Pytorch, Hugging Face, Gradio, LLM

- Developed an end-to-end model for summarizing Hindi news articles containing technical terms in English, using the ILSUM Hindi-2024 dataset with over **10,000 training and 1500+ validation samples**.
- Fine-tuned the **IndicBART** model from Hugging Face and deployed it on Hugging Face using a Gradio-based interface and web app.
- Final result of finetuning contains Rouge1 score of **0.50+**.

## CERTIFICATION

### Complete Data Science, Machine Learning, DL, NLP Bootcamp-

by Krish Naik

July 2025

- Comprehensive training covering Data Science, Machine Learning, Deep Learning and NLP.
- Gained hands-on experience in Python, TensorFlow, PyTorch, Scikit-learn, NLP pipelines and real-world projects.