



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.

English-Article-Summarizer

November 2025

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

- Fine-tuned the **FLAN-T5-base** model on the **ILSUM 2024** English dataset to build a domain-specific abstractive text summarizer.
- Implemented a full training pipeline including **data cleaning**, **instruction-based preprocessing**, **tokenization**, **Seq2Seq training**, and **ROUGE** evaluation.
- Implemented a reusable inference module capable of generating concise summaries for unseen articles.

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.