# Adarsh Kumar Bhardwaj

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## EDUCATION

**Indian Institute of Information Technology**                                      *Ranchi, India*
Bachelor of Technology in Computer Science Engineering                        2022 – Present

- Specialisation in Data Science and Artificial Intelligence
- CGPA = 8.44 (till 6th semester)

## SKILLS

**Programming Languages:** Python, C++, SQL
**Machine Learning & NLP:** Scikit-learn, TensorFlow, PyTorch, NLP, Transformers, RAG, LLMs
**Frameworks & Tools:** LangChain, Hugging Face, Gradio, Streamlit, Flask
**Cloud & Deployment:** AWS (EC2, S3, sagemaker), Hugging Face Spaces, Heroku
**Data & Visualization:** Pandas, NumPy, Matplotlib, Seaborn

## PROJECTS

**Hindi-Article-Summarizer**  ↪

- Developed an end-to-end model for summarizing Hindi news articles containing technical terms in **English**, using the **ILSUM Hindi-2024** dataset with over 10k training and 1.5k+ 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+.**

**Medi-assist-chatbot**  ↪

- Developed a **context-aware medical chatbot** that answers user queries using a 637+ page medical textbook as the knowledge base.
- Implemented **Retrieval-Augmented Generation (RAG)** using **LangChain**: documents were chunked, embedded via **MiniLM** (HuggingFace), and stored in a **Pinecone vector database**.
- Integrated **Cohere's Command-R+ LLM** for dynamic response generation with **custom prompt tuning** for short/long-form answers based on query complexity.

## CERTIFICATIONS 🔗

- Complete Data Science, Machine Learning, DL, NLP Bootcamp by Krish Naik, KRISHAI Technologies Private Limited – July'25