



# Anmol Kashyap

Roll No.:2511AI44

M.Tech

Artificial Intelligence

Indian Institute Of Technology, Patna

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## EDUCATION

| Degree/Certificate | Institute/Board                         | CGPA/Percentage | Year         |
|--------------------|-----------------------------------------|-----------------|--------------|
| M.Tech. (AI)       | Indian Institute of Technology, Patna   | 7.86            | 2025-Present |
| B.Tech. (IT)       | Chandigarh Engineering College, Landran | 7.16            | 2017-2021    |
| Senior Secondary   | CBSE Board                              | 60.2%           | 2016         |
| Secondary          | JKBOSE                                  | 96.2%           | 2014         |

## PROJECTS

- **IITP Chatbot using Retrieval Augmented Generation (RAG)** 2025  
*Domain-specific academic chatbot for answering queries from institute documents*
  - Built a domain-specific academic chatbot using a Retrieval Augmented Generation (RAG) pipeline to answer queries from institute documents such as academic calendar, course syllabus, and timetable.
  - Implemented semantic search using sentence embeddings (MiniLM) and FAISS vector database for efficient context retrieval.
  - Integrated a lightweight transformer language model (TinyLlama-1.1B) for natural language response generation.
  - Designed a similarity-threshold based filtering mechanism to prevent hallucinations and ensure responses are generated only from verified document context.
  - Developed an end-to-end pipeline including document ingestion, embedding generation, vector indexing, and contextual response generation.
  - **Tools & technologies used:** Python, FAISS, Sentence Transformers, TinyLlama

## KEY COURSES TAKEN

- Data Structure, Algorithms, DBMS, Machine Learning, Artificial Intelligence, Web Services, Operating System

## TECHNICAL SKILLS

- **Programming:** C/C++, Python, R, JavaScript, SQL
- **Tools & OS:** Git, Jupyter Notebook, Google Colab, Linux, Windows
- **Libraries/Frameworks:** Pandas, Numpy, scikit-learn, JQuery
- **Web Skills:** HTML/CSS/JS, ReactJS/NextJS

## ACHIEVEMENTS

- **Secured 12th Position** in Matriculation board examination
- **Qualified** Gate exam in 2023, 2024, 2025

## CERTIFICATIONS

- NIIT Certification on Java Language
- Internshala Certification on Web Developmet