

EDUCATION

- Indian Institute of Information Technology, Lucknow

Masters of Science in Artificial Intelligence and Machine Learning; CGPA: 9.45

Lucknow  
Dec. 2023 – Present
- Delhi University, Shivaji College

Bachelor of Science (BSc) in Mathematics (Hons); CGPA: 9.162

Delhi  
Aug 2020 – May 2023

RESEARCH EXPERIENCE

- LLMOPs Research Project:

Apr 2024-present

  - Led a team in developing an LLM Agent for automating bookkeeping processes, focusing on responsible AI principles and trustworthy systems.
  - Implemented advanced RAG pipelines and LLM fine-tuning techniques to ensure ethical and unbiased AI operations.
  - Tech Stack:** LLM Agents, LLM Fine-tuning, RAG pipelines, FastAPI
- MLOps Research at AYUDH AI:

Mar 2024-Apr 2024

  - Developed and deployed a RAG-based system for enterprises, focusing on explainable AI and ethical data management.
  - Implemented robust authentication systems and managed the development process adhering to responsible AI guidelines.
  - Tech Stack:** ChromaDB, LLM Inference servers, Hugging Face, Ethical AI frameworks


RESEARCH PROJECTS

- Ethical AI in Education:** Developed a RAG-based College Counselling Chatbot, focusing on fairness and transparency in AI-driven educational guidance. **Tech Stack:** Langchain, Groq API, RAG, Ethical AI principles
- Responsible Data Interaction:** Created LLM Agents for ethical interaction with Gmail and Databases, emphasizing data privacy and security.
- Advanced RAG for Trustworthy AI:** Developed a web application using advanced RAG techniques, focusing on interpretability and bias mitigation. **Tech Stack:** ReactJS, FastAPI, Advanced RAG, Responsible AI frameworks
- AnywhereLLM:** Designed a system to ethically integrate LLMs across various platforms, adhering to responsible AI guidelines. **Tech Stack:** Python, Ethical AI implementation, API development

SKILLS

- Technical Skills:** Machine Learning, Deep Learning, Statistical Analysis, Natural Language Processing, Responsible AI frameworks, Explainable AI techniques
- Tools & Frameworks:** PyTorch, TensorFlow, Scikit-learn, Hugging Face, Docker, AWS, FastAPI, ReactJS
- Soft Skills:** Research Methodology, Scientific Writing, Ethical AI Advocacy, Team Leadership, Cross-functional Collaboration

ACHIEVEMENTS & PUBLICATIONS

- Secured **35th Rank** in the All India Hackathon AI ARENA 2.0, showcasing innovative and ethical AI solutions.
- IIT JAM All India Rank** : 804
- Contributed to a research paper on "Ethical Considerations in LLM-based Educational Counselling" (under review for publication)
- Conducted workshops on Responsible AI practices for undergraduate students