Kartik Gupta

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EDUCATION

University of Petroleum and Energy Studies – Dehradun, Uttarakhand
August 2022 - June 2026
Bachelor of Technology, Computer Science   **CGPA :** 7.6/10

EXPERIENCE

GDSC – UPES, Dehradun
Core Member   *Jan 2024 – Jun 2024*
- Organised a session on tensorflow and basics of machine learning and helped 30+ attendees skyrocket their interest towards the domain of Machine Learning.
- Managed several events hosted by GDSC as well as in collaboration with other organisations

Junoon Foundation – Mumbai, Maharashtra
Volunteering – Head of Content   *June 2023 – Aug 2023*
- Orchestrated content recording during multiple events, producing high-quality videos and visuals that garnered 15k+ views and drove an increase in donations.
- Spearheaded crowdfunding for children and helped in raising around INR 10,000 and bought partnerships

HIGGZ ACADEMIA TECHNOLOGY – Remote
Subject Matter Expert (Mathematics and Statistics)   *Jan 2023 – June 2023*
- Provided prompt resolution of mathematics and statistics doubts for K-12 students.

PROJECTS

Multi-Modal Assistant
- **Tech Stack**: Python, Gemini API
- Developed an interactive AI system using Google Generative AI (Gemini), processing 100+ PDFs, recognizing speech with 95% accuracy, generating images, summarising 60-minute audio, and analysing 10+ videos. Provided fitness, mental health, and general health support.
- **Structured Implementation**: Created a versatile, user-friendly application capable of handling multiple types of media inputs and providing insightful, AI-generated responses, enhancing user experience in various domains including health and fitness.

RAG based Talk to your PDFs
- **Tech Stack**: Python, Langchain, Ollama
- **Structured Implementation**: Implemented a PDF processing pipeline using `langchain` to load and split 100+ documents, generating 512-dimensional text embeddings with `Ollama` for connecting LLaMA2, ensuring efficient content indexing and searching.

Tournament Management Application
- **Tech Stack**: Java and SQL
- **Structured Implementation**: Role-based Java console app ensures versatility with structured OOPs implementation with MySQL integration for efficient tournament management.

Achievements

- Research Paper Proposal accepted in The 75th International Astronautical Congress Conference
- Smart India Hackathon 2023 Finalist
- Finalist in Indo-Malaysian Hackathon Hack for SDG