Moksha Yagna

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TECHNICAL SKILLS

- Languages
  - Python
  - C programming
  - DSA in python(Basics)
- Database
  - MYSQL
- Gen AI
  - RAG Implementation
  - Langchain.
- Python Libraries
  - pandas
  - Numpy
- Embedded Systems:
  - Arduino
- OS
  - Linux
- Version Control
  - Git
- Other Skills
  - CSV reader implementation
  - pdb-Debugger

EDUCATIONAL BACKGROUND

- Pursuing Bachelor of Electronics and communication Engineering (2022 -2026)
- X+2 (2019 - 2021) Scored 87% From Dr.Pandra Koteshwarama College, Kadapa.
- X (2019) Scored 100% From Nagarjuna Model School, Kadapa.

ACHIEVEMENT

Successfully presented paper on "IOT-based Soil Monitoring Systems for Precision Agriculture" in National Conference on Artificial Intelligence, Bio-Medical Signal Processing, Computing and Data Communication Systems (NCABCD-2024)

PROFESSIONAL SUMMARY

Electronics and Communication Engineering student with a strong foundation in AI & ML, passionate about integrating AI with embedded systems and signal processing. Experienced in developing AI-driven solutions, optimizing algorithms for real-world applications, and working with hardware-software co-design. Enthusiastic about research-driven projects and eager to contribute innovative solutions in AI-integrated electronics.

PROJECTS

1. Retrieval-Augmented Generation (RAG) for Multiple Documents (Completed)

Objective:
Developed an AI-powered document retrieval system to enhance query accuracy using RAG.

Key Features:

- Integrated Gemini AI for efficient and context-aware document responses.
- Implemented vector embeddings and semantic search for precise information retrieval.
- Designed a custom indexing mechanism to improve search performance.
- Optimized system with multi-threading for faster document processing.
- Ensured scalability with cloud-based storage solutions.

2. AI-Driven Chatbot with Model Selection (Ongoing)

Objective:

Designed a chatbot that dynamically selects AI models based on user queries.

Key Features:

- Enabled real-time model switching (ChatGPT for text, Gemini AI for images).
- Developed a modular framework to integrate multiple AI models seamlessly.
- Optimized API request handling to reduce response latency.
- Implemented user preference learning for adaptive AI recommendations.
- Exploring vector search to enhance contextual responses.