NOORUL HASSAN

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SKILLS

AI	Python,PyTorch
Deep Learning	Neural Networks
Prompt Engineering	Crafting efficient system,role,reverse,shot,CoT and ToT prompting
Generative AI	LLM,NLP,RAG,Langchain,Agentic Ai,MCP,Crew AI
Cloud Service	AWS(Sagemaker, Lambda and Bedrock)
DSA	Searching,Sorting,LinkedList,Stack,Queue,Graph

EXPERIENCE

Internship Aug 2023 - sep 2023
Bharat Intern *Chennai, TN*

- Developed and deployed a predictive model using Long Short-Term Memory (LSTM) neural networks to forecast stock prices, integrating data collection, pre-processing, and predictions..
- Built a machine learning model for handwritten digit recognition with the MNIST dataset, achieving high accuracy using various training techniques.

Internship Aug 2024 - Sep 2024
YBI foundation *Chennai,TN*

- Implemented a K-Means clustering model on movie reviews, leveraging TF-IDF vectorization for feature extraction and Principal Component Analysis (PCA) for dimensionality reduction,resulting in meaningful customer purchase behavior based on sentiment analysis.

PROJECTS

Embedding Model Comparison and RAG. Compared Cohere and Voyage AI embeddings for document retrieval.Implemented RAG pipeline to enhance response quality by testing with various quries.
Tech Stack : Python, cohere and voyage

RAG Chatbot with voice and emotion detection. Built an AI-powered RAG chatbot using LangChain, FAISS, and OpenAI GPT for contextual QA on PDFs. Integrated speech-to-text, text-to-speech, and an emotion classifier for sentiment-aware responses. Enabled voice and text interaction with semantic retrieval, delivering an intelligent, interactive assistant for document understanding.
Tech Stack: Python,OpenAI,Embeddings,Vector store,Langchain and gtts

Ai Powered Stock Analysis Chatbot. Multi-agent system using CrewAI, and LangChain with Llama 3 for real-time stock data analysis, pattern recognition, and intelligent financial insights with streamlit cloud Deployment.
Tech Stack : Python,collab,Crew AI,Langchain and Pydantic

Editing People Clothes by Prompt. Implemented Segment Anything Model (SAM) and Stable Diffusion for intelligent clothing segmentation and realistic garment replacement using deep learning inpainting techniques.
Tech Stack : Python,OpenCV and PyTorch

EDUCATION

B.Tech - Artificial intelligence and Data Science, Crescent University 2021 - 2025
CGPA: 7.4/10

CERTIFICATIONS

LLM Engineering - Udemy