Divya Nayan

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https://github.com/divya-nayan

Experience

Growth Loops Technology　　　　　　　　　　　　　　　　　　　　　**July 2024 – Oct 2024**
AI/ML Engineer Intern　　　　　　　　　　　　　　　　　　　　　　　　　*Kolkata, W.B*

- Engineered high-performance multi-agent chatbots for a U.S. client using LangGraph, significantly boosting conversational AI capabilities and user engagement.
- Developed and deployed advanced RAG (Retrieval-Augmented Generation) solutions with Langchain and Pinecone, enhancing real-time data retrieval and AI response accuracy.
- Leveraged OpenAI and various LLMs to build sophisticated NLP models, delivering scalable and production-ready AI solutions.
- Led the end-to-end AI development lifecycle, from solution architecture to deployment, ensuring alignment with business goals and technical excellence.

Newton Computer Academy　　　　　　　　　　　　　　　　　　　**Feb 2022 – Mar 2024**
Python Faculty　　　　　　　　　　　　　　　　　　　　　　　　　*Muzaffarpur, Bihar*

- Taught core Python concepts, including data structures, OOP, web scraping, and automation, with project-based learning.
- Guided students through advanced programming topics, such as algorithms, recursion, and dynamic programming, using Python.
- Introduced modern Python libraries, like Pandas, NumPy, and Matplotlib, for data manipulation, visualization, and problem-solving.

Projects

Advanced RAG Chatbot Using LLMs and Multiple Databases | *Python,Langchain, OpenAI,SQL*　　**Oct 2024**

- Utilized LLMs and SQL agents to enable efficient interaction with multiple SQL databases and tabular datasets.
- It incorporates real-time querying and Retrieval Augmented Generation (RAG) capabilities for enhanced performance.
- Utilized frameworks like OpenAI, LangChain and Gradio for functionality and performance monitoring.
- Repository link: https://github.com/divya-nayan/LLM-Chatbot.

Natural Language Processing | *Python, Tensorflow, NLP, LLM's*　　　　　　　　　**October 2023**

- Executed NLP tasks such as Text Classification, Generation, Machine Translation, and Summarization.
- Applied Seq-to-Seq models, Encoder-Decoder architectures, Transformers, and LLM techniques.
- Leveraged Hugging Face Transformers, including GPT-2, BERT, BART, and T5.
- Repository link: https://github.com/divya-nayan/Natural-Language-Processing-NLP-.

Computer Vision | *Python, Keras, OpenCV, LLM's*　　　　　　　　　　　　　**November 2023**

- Developed and optimized solutions for Image Classification, Segmentation (Binary/Multiclass), and Object Detection.
- Utilized advanced techniques including CNNs, U-Net, and Transfer Learning with state-of-the-art models such as VGG16, ResNet50, Inception, and YOLOv8.
- Repository link: https://github.com/divya-nayan/Computer-Vision.

Technical Skills

Languages: Python, SQL
Developer Tools: Github, Jenkins, MySql, VS Code, Google Colab, Jupyter
Technologies/Frameworks: Langchain, Langgraph, GitHub, Pinecone, OpenAI

Certifications / Extracurricular

- TCS NQT 2023 (1609/1800).
- IBM Data Science Professional.
- Google Advanced Data Analytics.

Education

RGPV University　　　　　　　　　　　　　　　　　　　　　　**Aug. 2015 – June 2019**
B.E in Computer Science Engineering　　　　　　　　　　　　　　　　　　　*Bhopal, M.P*