

ASHWANTHRAM K L

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EDUCATION

Coimbatore Institute of Technology, Coimbatore

07/2020 – 05/2024

Bachelor of Engineering (B.E) Computer Science and Engineering

TECHNICAL SKILLS

Programming Languages: Python, Javascript, C++

Frameworks & Libraries: Streamlit, Gradio, Langchain, Autogen (Multiagent), OpenAI Platform, together.ai, HuggingFace

Prompt Engineering Techniques: Reflexion, Chain-of-thought, Tree-of-thought, In-Context Learning, ReAct, Expert Persona Prompting, Meta Prompting, Multi-Agent Debate Prompting

Machine Learning: Large Language Models (LLMs), Retrieval Augmented Generation (RAG), LLM Finetuning, Information Retrieval, Transformers, Word2Vec, Node2Vec, NumPy, Scikit-Learn, Pandas, NLTK, Matplotlib, Tensorflow

Software & Tools: FAISS, ChromaDB, LlamaIndex, Pinecone, MySQL, Git, Github, PromptLayer, AWS SageMaker, Google Colab, VS Code, Jupyter Notebooks, Linux, Windows

EXPERIENCE

FarmwiseAI Pvt Ltd

08/2023 – Present

Data Scientist Intern (GenAI)

Chennai

- **Constructed a topic tagging based recommendation system** using LLMs for a text-based social media platform, enhancing user engagement by accurately tagging posts and user profiles.
- **Implemented content routing** based on topic tags to increase user participation in discussions by **25%**.
- **Formulated and standardized Canonical Lists of Topics (CLOTs)** for 10+ spaces by integrating Langchain's SerpAPI Agent and LLMs for relevance scoring the topics, **improving tagging accuracy by more than 30%**.

PROJECTS

Pdf Chat | [Git](#)

- Developed **PdfChat with Llama2-7B**, an interface for interactive research paper analysis. Utilized **Langchain** to chunk and tokenize text and employed **all-MiniLM-L6-v2** sentence transformers to generate 384 dimensioned embeddings.
- Established a **Retrieval Augmented Generation (RAG)** system using **FAISS** with **cosine similarity**, fetching the most relevant chunks.
- Engineered **Llama2** integration with the RAG system to enhance query processing, resulting in a 40% reduction in response time and a 25% increase in user satisfaction metrics.

TravelMate AI

- **Orchestrated an AI-driven chatbot** for hotel reservations and trip planning using **GPT-4-turbo** and **Langchain**, integrating **SERP API** with **Google APIs** to enhance booking processes, resulting in a **20% increase** in user bookings.
- **Executed personalized travel recommendations** by leveraging user profiles and preferences, significantly boosting user engagement and satisfaction by **30%** through tailored suggestions for flights, hotels, and attractions.
- **Automated customer service functions** with the chatbot, reducing operational costs by **25%** and improving booking efficiency, thereby enhancing overall user experience.

CERTIFICATIONS

- **Generative AI with Large Language Models by DeepLearning.AI:** [Certificate](#)
- **Prompt Engineering for ChatGPT by Vanderbilt University :** [Certificate](#)
- **Python :** [Certificate](#)

ACHIEVEMENTS

- Qualified for **ACM ICPC Regionals Amritapuri Region** by ranking in the top **200** teams out of **1000+** teams.
- Selected for **Buildspace nights & weekends S3**, created a **Discord community** for home-schooled students, fostering improved **communication** and meaningful **interactions**.
- Secured **second place** in the **Intra-College Smart India Hackathon 2023** among **75+** teams.

POSITIONS OF RESPONSIBILITY

Vice President [Cryptera](#) - CIT Coimbatore

08/2022 - 12/2022

- Drove the attraction of close to **1500** attendees to the event.
- Established the Referral Program responsible for bringing in **1/3rd** of the participants.
- Directed a group of **25+** event managers in the strategic scheduling and flawless execution of events.