LOKESH REPAKA

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Technical Skills

Knowledge: Data Science, Machine Learning, Deep Learning, NLP, LLMs, GPT
Languages: Python, SQL, HTML, CSS, React, Web development,SQL, NoSQL
Cloud: GCP Cloud Run, Amazon Sage Maker(AWS)
basic Libraries: Numpy, Pandas, Sklearn, Spacy, NLTK, Opencv, Matplotlib / Seaborn
Tools: Jupyter notebooks, docker, GitHub, Git, Google DataStudio
Others: Statistics & Probability, Calculus, Mathematics, Linear Algebra, Worked on Complex Datasets, Statistical Analysis, Data Mining, Model Building and Deploying, Hypothesis Testing, Data Analytics.

Work Experience/Projects

Genpact   **Auguest 2023 – Present**
Data Scientist   *Hyderabad, India*

- Led the design and deployment of an innovative **data generation tool using Generative AI**, tailored to industry-specific use cases and domains. This tool addressed data voids, such as **insufficient data** for model training, by creating realistic simulated datasets. It enhanced **data privacy and security** while enabling the development of robust models without exposing sensitive information.
- Developed a **Generative AI-powered chatbot** to interact with over **100+ Power BI dashboards**, streamlining data access and analysis. The chatbot efficiently responded to **user queries** related to the dashboards and provided insights into complex **data analysis questions**, reducing information **retrieval time by 50%**. This innovative solution enhanced decision-making processes and improved overall productivity by allowing users to quickly obtain critical insights without navigating multiple dashboards manually.
- Led a project utilizing **machine learning and Generative AI** to analyze and categorize **product feedback** into distinct themes, such as technical issues and communication concerns. Implemented **clustering algorithms** to organize feedback data into meaningful categories, which enabled the identification of primary themes and concerns. By using Generative AI, the project transformed raw feedback into **actionable insights**, improving customer service **response times and satisfaction rates by 20%.**

Genpact   **March 2023 – July2023**
Software Engineer Intern   *Hyderabad, India*
Restaurant Ordering Platform

- Designed and developed a website using React to facilitate **online ordering for a restaurant chain.**
- Managed the integration and operations of **3 main franchise outlets**, ensuring all associated restaurants were efficiently incorporated into the platform.
- Utilized **Postman API for backend testing**, ensuring robust and reliable server interactions, while performing manual testing to enhance frontend **user experience.**

Personal Projects/Awards & Achievements

DocQA: Interactive GenAI Chatbot │ *llama-index, langsmith, AWS, Falsk,*   **April 2024 - May 2024**

- Developed a Generative AI-powered chatbot using advanced **multi-modal RAG** techniques, enhancing query **accuracy by 80%** across multiple document types, including images, tables, and text.**.**
- Deployed the application on **AWS**, with response tracking via **Langsmith** and an interactive frontend built with **Flask.**
- Improved user interaction and query accuracy through sophisticated AI-driven document processing and integration.

Credit Card Modeling | Machine learning, Streamlit   **Nov 2023 - Dec 2023**

- Applied machine learning techniques to build predictive models, to improving fraud detection accuracy , and analyzed transaction data to uncover trends that optimized credit card offerings and informed strategic decisions.

Education

SRM University AP   **Aug 2019 – Sep 2023**
Bachelor of Science in computer science   *Mangalagiri, Andhra Pradesh*