

AMUKANTI SAI MOHAN REDDY

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SUMMARY

Highly motivated Data Scientist with a strong background in Python, SQL, and machine learning. Experienced in developing end-to-end data science solutions, including database management, natural language processing, and computer vision. Adept at working with large datasets, building predictive models, and optimizing algorithms. Eager to apply my analytical skills and technical expertise to contribute to impactful data-driven projects

WORK EXPERIENCE

Data Scientist Associate, Blenheim Chalcot

Mar 2024 - Present

- I've delved into Pinecone database management, Lambda function handling and GitHub utilization, expanding my technical expertise and contributing to project success.
- I was involved in a pivotal transition in our database infrastructure, migrating from pgvector to Pinecone for enhanced performance and stability.
- I have experience with a chat application that operates on the RAG principle, employing the Llama-index and LangChain.

Data Scientist Intern, Blenheim Chalcot

June 2023 - Mar 2024

- I've played a key role in crafting efficient data processing workflows in HEVO platform for Instrumental pipeline project
- I've developed advanced conversational solutions, such as Llama2 chatbot and HugChat. I've extensively worked with LLM's, honing my skills in prompt engineering.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Aug 2020 - Aug 2024

Lovely Professional University

- Specialization in Data Science and Machine Learning.
- 3 Star rating in SQL and Python on Hacker Rank.
- Scored 7.54 CGPA

Higher Secondary

June 2018 –Mar 2020

Sri Chaitanya Junior College

- Secured 94.8% in the overall academics

SKILLS & CERTIFICATIONS

- **Technical Skills:** Python, SQL, Machine Learning, Data Science, Computer Vision, Natural Language Processing, PowerBI, AWS, Architecture Diagram, AWS Pricing, Technical Communication Azure, Azure ML Studio, Azure Designer, Vagrant, Ansible
- **Languages:** English, Hindi, Telugu
- **Certifications:** Machine Learning Foundations | AWS Educate, Solutions Architecture Job Simulation (AWS) - Forage

PROJECTS

Fake News Classification

Domain: Machine Learning; Languages: Python

Imported a dataset from Kaggle with data on news articles collected from various sources
Filtered the Data and cleaned it and done Variate Analysis
Used Logistic Regression, Vectorization and Random Forest classification methods to predict whether the news is genuine or fake

Data Analysis on Products in E-Commerce Websites

Domain: Data Analysis; Language: Python

Data Preprocessing: Cleaned and prepared dataset using Python.
SQL Engine Creation: Built SQL engine connecting to SQL Workbench.
Analysis in SQL: Conducted analysis and derived insights using SQL queries.
Results and Impact: Analysed which products have positive or negative reviews to give feedback on the coming sales to the companies.

Llama2 Chatbot

·Domain: GenAI, LLM's; Languages: Python

Created an interactive chatbot leveraging the Llama2 model in conjunction with GenAI for natural language processing.
Utilized feedback loops to refine model performance and enhance user experience.
Reduced latency in response generation, providing real-time conversational capabilities.

HR Chatbot

·Domain: RAG, GenAI, LLM's; Languages: Python

- Developed an HR chatbot utilizing Generative AI RAG technique, specifically trained on comprehensive HR data to provide accurate and relevant answers to HR-related queries.
- Integrated the chatbot into the company's HR system to streamline HR processes, improve employee experience, and reduce the workload on HR personnel.