VISHAL CHANDRU

Web: https://vishalchandru.github.io/ I https://www.linkedin.com/in/vishalchandru/

Database: MySQL, PostgreSQL, VectorDB Analytics: Tableau, MS Excel, Power BI EXPERIENCE Data Scientist (Capstone) Bank of America Optimizing LLM Detectors: Collaborated with Bank of America to optimize the performance of LLM Detectors by integrating SVM to detectors like GPTZero, CopyLeaks, DetectGPT, ZeroGPT, DetectingAl.com with the University of Texas at Arlington. Graduate Student Assistant University of Texas, Arlington - The Office of the Vice President Data Analysis: Operated in the Vice President's Data Analysis on enrollment data to provide insights for future Enrollment Opportunities at The University of Texas at Arlington. Data Visualization: Developed 2021-2025 SEM (Strategic Enrollment Management) Planning, Vision, Goal and Initiatives of UTA by perform ETL task and building dashboards using Power BI. Portfolio Management: Provide insights from Contract Management and offer recommendations on the renewal of the Contracts signed by UTA. Tools: SAS, OAC, MS Excel, Tableau, Power BI, SQL. Data Scientist Oct 2021 – Nov 2022 Innomatics Research Labs Model Management & Experiment Tracking: Deployed the machine learning models in cloud and kept a track of the model parameters and logging the experiments by MLOPs. Natural Language Processing: Finetuned BART NLP Summarization models, and worked with LLMs. Computer Vision: Worked with OpenCV, Yolo, Semantic Segmentation algorithms. Tools: Python, R, GitHub Actions, Dockers, MySQL, TensorFlow, PyTorch, GenAl Software Engineer Larsen & Toubro Infotech Development: Built and performed Data Analysis on the Mobility Data Analysis Platform for Mercer-Marsh McLennan using SQL and Python. Data Process Automation: Automated the manual Data Analysis task by developing a python code that reduced the manual labor by 70%. Leadership: Communicated with Client-Project Manager and Business Analyst and drive the team in agile methodology to accomplish sprints and milestones. Tools: IAVA, Python, PostgreSQL, API		Master of Science in Data Science		Aug 2022 – May 2024	
Languages: C++, Java, Python, R Database: MySQL, PostgreSQL, VectorDB Analytics: Tableau, MS Excel, Power BI Data Scientist (Capstone) Bank of America Optimizing LLM Detectors: Collaborated with Bank of America to optimize the performance of LLM Detectors by integrating SVM to detectors like GPTZero, CopyLeaks, DetectGPT, ZeroGPT, DetectingAl.com with the University of Texas at Arlington. Graduate Student Assistant University of Texas, Arlington - The Office of the Vice President Data Analysis: Operated in the Vice President's Data Analysis on enrollment data to provide insights for future Enrollment Opportunities at The University of Texas at Arlington. Data Visualization: Developed 2021-2025 SEM (Strategic Enrollment Management) Planning, Vision, Goal and Initiatives of UTA by perform ETL task and building dashboards using Power BI. Portfolio Management: Provide insights from Contract Management and offer recommendations on the renewal of the Contracts signed by UTA. Tools: SAS, OAC, MS Excel, Tableau, Power BI, SQL. Data Scientist Oct 2021 – Nov 2022 Innomatics Research Labs Model Management & Experiment Tracking: Deployed the machine learning models in cloud and kept a track of the model parameters and logging the experiments by MLOPs. Natural Language Processing: Finetuned BART NLP Summarization models, and worked with LLMs. Computer Vision: Worked with OpenCV, Volo, Semantic Segmentation algorithms. Tools: Python, R, GitHub Actions, Dockers, MySQL, TensorFlow, PyTorch, GenAl Software Engineer Jon 2021 – Jun 2022 Lorsen & Toubro Infotech Development: Built and performed Data Analysis on the Mobility Data Analysis Platform for Mercer-Marsh McLennan using SQL and Python. Data Process Automation: Automated the manual Data Analysis task by developing a python code that reduced the manual labor by 70%. Leadership: Communicated with Client-Project		The University of Texas at Arlington		GPA – 4.0/4.0	
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RAG LLM Application using LangChain [Python, OpenAI, Transformers, PyTorch, Pinecone, Weaviate, FAISS, AWS]

o Created a Chat LLM model using Retrieval Augmented Generation LLM to retrieve response from external PDF using Semantic Search on the Embedded chunks of PDF in the Vector Store/DB.

Time Series Forecasting on Stock Prices [Python, ARIMA, SARIMAX, LSTM]

o Created a streamlit application which predicts the stock prices of a particular company using Tiingo API.

Experiment Tracking and Model Management [Python, Streamlit, MLflow, DVC, DagsHub, Docker, AWS]

o Built and containerized a Streamlit app, tracked with MLflow, DVC, automated CI/CD, and deployed on AWS ECR.

Recommendation Systems [Python, TensorFlow, ScaNN, Ranking]

o Music and Movie recommender systems using collaborative filtering on public datasets.