VISHAL CHANDRU

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EDUCATION	
	Master of Science in Data Science Aug 2022 – May 2024
	The University of Texas at Arlington GPA – 4.0/4.0
SKI	LLS
	Languages: C++, Java, Python, R
	Database: MySQL, PostgreSQL, VectorDB
	Analytics: Tableau, MS Excel, Power BI
EXI	PERIENCE
	Graduate Teaching Assistant Jan 2024 – Present
	Data Science Project Management
	 Collaborated with the professor and guided students throughout the entire lifecycle of a Data Science Business Project.
	Graduate Student Assistant July 2023 – Dec 2023
	University of Texas, Arlington - The Office of the Vice President
	 Data Analysis: Operated in the Vice President's Data Analyst Team to perform 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.
	o 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 accompanies and bearing the experiment by MICOR.
	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 OpenSV Vols. Semantic Segmentation algorithms.
	 Computer Vision: Worked with OpenCV, Yolo, Semantic Segmentation algorithms. Tools: Python, R, GitHub Actions, Dockers, MySQL, TensorFlow, PyTorch, GenAl
	Software Engineer Jan 2021 – Jun 2022
	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. o Tools: JAVA, Python, PostgreSQL, API
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PRC	DJECTS
	Time Series Forecasting on Stock Prices [Python, ARIMA, SARIMAX, LSTM]
	 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]
	 Built and containerized a Streamlit app, tracked with MLflow, DVC, automated CI/CD, and deployed on AWS ECR.
	Recommendation Systems [Python, TensorFlow, ScaNN, Ranking]
	 Music and Movie recommender systems using collaborative filtering on public datasets.
	Generative AI – Finetuning LLM Models [Python, Hugging Face, Transformers, NLP, LLM, AWS]
	 Performed Prompt Engineering (Zero-shot, One-shot, Few-shot) and PEFT (LoRA method) on Flan-T5 model.
	Generative AI – RLHF LLM Models [Python, Hugging Face, Transformers, PyTorch, AWS]
	o Building a responsible AI with less toxicity using reinforcement learning by human feedback on finetuned Flan-T5 with
	reward model as facebook's roberta-hate-speech-dynabench-r4-target model.
	RAG LLM Application using LangChain [Python, OpenAl, Transformers, PyTorch, Pinecone, Weaviate, FAISS, AWS]

 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.