Mayur Vora

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EDUCATION

University of North Texas — Denton, TX
Master of Science in Artificial Intelligence, Minor in Machine Learning — *Jan. 2022 – Dec 2023*

Gujarat Technological University — Gujarat, India
Bachelor of Engineering in Computer Science — *Aug. 2016 – Sep 2020*

EXPERIENCE

Data Engineer Associate — Aug 2022 – Dec 2023
High School Career Connect — *Denton, TX*
- Secured $200k in grant funding by creating interactive Power BI dashboards, providing clear insights into program effectiveness.
- Designed and implemented data pipelines with SQL, Python (Pandas), and Apache Kafka to integrate diverse data sources into the enterprise data environment.
- Enhanced data accessibility by building automated ETL pipelines, reducing data processing time by 25%.
- Ensured data integrity and compliance by collaborating with stakeholders to implement compliant data models, promoting data-driven decision-making.

Graduate Student Assistant — Mar 2022 – Aug 2022
UNT Digital Newspaper Unit — *Denton, TX*
- Optimized metadata, streamlined processing, and created reports with cross-functional teams, boosting digital materials circulation by 20%.
- Developed interactive dashboards using Python and Tableau, boosting user engagement and feedback by 40%.
- Enhanced digital resource accessibility by customizing databases and web pages, improving access for students and faculty by 35%.

Data Engineering Intern — Apr 2019 – Oct 2020
Rejoice Hub Solution — *Surat, INDIA*
- Designed and implemented high-throughput data pipelines using PySpark on AWS to process and transform large datasets for marketing analytics.
- Developed and automated ETL processes using Apache Airflow to ensure data quality and consistency throughout the data lifecycle.
- Increased data processing efficiency by 30% through code optimization and resource management techniques.
- Mentored junior data engineers and fostered a culture of knowledge sharing within the data team.

PROJECTS

Customer Support Chatbot | *Python, TensorFlow, FastAPI, MongoDB, Docker* — May 2024 – Present
- Developed an AI-powered chatbot using TensorFlow for natural language understanding and generation, integrated with FastAPI for real-time interaction.
- Leveraged pre-trained LLMs to provide accurate and context-aware responses, improving customer satisfaction and reducing support load.
- Stored and managed user interactions and session data in MongoDB for seamless conversational context retention.
- Deployed the application using Docker, ensuring scalability and ease of updates.

Retail Analytics Platform | *Python, Airflow, SQL, Azure Data Lake, Power BI* — Jan 2024 – Apr 2024
- Designed and implemented an ETL pipeline using Apache Airflow to automate data extraction, transformation, and loading from multiple retail sources into Azure Data Lake
- Developed complex SQL queries and stored procedures to process and aggregate sales data for analytical purposes.
- Created interactive dashboards and reports in Power BI to provide real-time insights into sales performance, inventory levels, and customer behavior.

TECHNICAL SKILLS

Languages: Python, Shell Script, SQL (PostgreSQL / MySQL / NoSQL, Hive), R, Spark
Database Frameworks and Libraries: Pyspark, Apache Airflow, CI/CD, Tensorflow, Keras, Terraform, RestAPI
Developer Tools: Hadoop, Snowflake, DataBricks, Tableau, PowerBI, Git, Docker, Cloud (Azure, AWS, GCP), JIRA
Other Skills: Data Modeling, ETL Processes, Data visualization, Problem-Solving, Critical Thinking