Siva Sravana Kashyap Pathiki

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering   **Binghamton, NY**
Master of Science in Information Systems   *December 2023*
Cumulative GPA: 3.8/4.0
Coursework: Python and Data Mining (INFO501), Applied Data Mining (INFO535), Tools for Data Science (INFO537), Database Systems (INFO532)

SASTRA Deemed University   **Thanjavur, India**
Bachelor of Science in Mechatronics   *June 2020*

TECHNICAL SKILLS

Languages: Python, SQL, HTML5/CSS
Tools: Visual Studio Code, Oracle Database, MySQL Server, PostgreSQL, Docker, Databircks, Tableau, PySpark
Packages and Libraries: Pandas, NumPy, Scikit-Learn, MLlib, Keras, Matplotlib, Seaborn, NLTK, OpenAI, Gradio.
Cloud: Azure SQL Database, Amazon EC2, Azure Data Factory, Azure Synapse Analytics, Azure Data Lake Storage (ADLS)
Skills: ETL, Data Warehousing, Workflow Automation, Data Pipeline Orchestration, Data Analysis, Data Visualization
Certifications: SQL for Data Analysis with SQL Server

PROFESSIONAL EXPERIENCE

Virtusa Systems India   *Analyst, January 2020 – July 2022*
- Engineered data pipelines to ingest data in Blob storage to the SQL Data Warehouse with ADF and used filter, join, and aggregate functions to develop daily reports on the data.
- Collaborated with other teams to develop dashboards with Power BI that helped stakeholders to better understand the reports.

SASTRA University   *Python Programmer, February 2020 – June 2020*
- Identified scratches, dents on surface of Brake Plunger produced in manufacturing plant using Deep Learning Algorithm.
- Increased the probability of detection with a bundle of pre-processors like Sobel Operator, Laplacian Transformation and Gaussian Blur.

PROJECT EXPERIENCE

Student Registration System with Oracle Database   *March 2023 – May 2023*
- Designed an efficient database schema to store student information, courses, enrollment records and academic history.
- Implemented normalized tables to ensure data integrity and reduce redundancy, optimizing the database performance.
- Employed joins, subqueries, aggregate functions in multiple stored procedures and enclosed them in a package to handle different constraints to ensure consistent data entry.
- Created complex queries to retrieve and update student information, enrollment status, course details, prerequisites.

Daily Report on Product Revenue   *January 2022 – May 2022*
- Setup Azure Databricks account with DBFS and Blob Storage as data source through magic and secret commands.
- Loaded data from DBFS using PySpark and applied transformations with Spark SQL queries and PySpark APIs.
- Automated the process of reading data from DBFS and computing daily product revenue with workflows and orchestrated ADF Pipelines to execute the workflow jobs in Databricks.

Workflow Automation with Airflow   *May 2022 – July 2022*
- Designed and executed an end-to-end ETL process, encompassing data extraction from CSV files, transformation, and loading into a MySQL database.
- Implemented data manipulation techniques with SQL and derived required data to generate sales reports with DAGs in Airflow using python scripts.
- Utilized Docker to containerize both the MySQL server and Apache Airflow, streamlining the deployment and management of database and workflow environments.

Streaming Pipeline with Kafka   *April 2023 – May 2023*
- Setup Kafka and zookeeper on single node Linux system in AWS EC2 Instance, to produce and consume messages from Kafka topic.
- Ingested webserver logs to HDFS with the help of Kafka Connect through the Kafka topic by running commands on the Jupyter Lab in the EC2 instance.

Customer Analysis Dashboard Using Tableau   *June 2022 – July 2022*
- Built insights into sales data with a descriptive dashboard that covers different types of charts that helped to identify least performing states, trends over the year.

LEADERSHIP EXPERIENCE

Brakes India (TVS Group)   *Hackathon, December 2019 – January 2020*
- Secured First place by formulating solution to the problem with a team of four and presenting it at Brakes India Company.