SAI DEEKSHITH CHINTHALWAR

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SUMMARY

Innovative Data Engineer with over 4 years of expertise in crafting efficient data pipelines, optimizing data transformation workflows, and leveraging cloud platforms such as Azure Synapse, AWS Glue, and Apache Spark. Skilled in Python, SQL, and advanced data visualization tools, including Power BI and Tableau. Demonstrated proficiency in real-time analytics, cloud migration strategies, and deploying machine learning models to drive data-driven insights and decision-making.

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, R
Libraries: PyTorch, TensorFlow, scikit-learn, Keras, Pandas, NumPy, SciPy, Matplotlib, XGBoost
Databases & Visualization: MySQL, MongoDB, SAS, Power BI, Tableau, Qlik Sense, QlikView, Power Automate, Power Apps
Cloud Platforms: Azure (Databricks, Data Factory, Synapse, Delta Lake, DevOps), CI/CD, AWS (S3, Redshift, Glue, Lambda,EC2)
Big Data Technologies: Apache Spark, Apache Kafka, Apache Hive, Apache Airflow, Snowflake, ETL
Certifications: Azure Data Fundamentals (DP-900), Azure Data Engineer Associate (DP-203)

PROFESSIONAL EXPERIENCE

Regeneron Pharmaceuticals, Albany: Data Analyst July 2024 – Present

- Streamlined ETL workflows using **AWS Glue** and Step Functions, ensuring lab test and manufacturing data availability within an hour, while saving 30 hours of manual work monthly and improving operational efficiency across multiple teams.
- Engineered **Redshift** data warehouses with a Star Schema to consolidate complex sales and clinical trial data, cutting query times by 40% and enabling faster scaling of production to meet increased demand.
- Created a real-time pharmacy inventory management system with **Apache Kafka**, enabling stock updates within 5 minutes, preventing trial site delays, and supporting seamless inventory operations across distributed clinical and pharmacy networks.
- Preprocessed clinical and inventory datasets in **Amazon S3** to support predictive modeling, reducing critical drug stockouts by 15 instances monthly, ensuring uninterrupted patient care, and enhancing the reliability of supply chain forecasting systems.

University at Albany, Albany, NY: Research Assistant August 2023 – May 2024

- Refined SQL queries to analyze student enrollment and resource allocation data, reducing execution time by 15 seconds and empowering faculty to identify underperforming courses, enhance curriculum design, and improve overall academic outcomes.
- Implemented advanced stored procedures to analyze student performance trends, saving 10 hours of manual effort weekly, enabling timely adjustments to course structures, and significantly boosting completion rates across academic programs.
- Built **Qlik Sense** dashboards to visualize faculty workloads, attendance patterns, and resource utilization, achieving a 20% improvement in resource allocation efficiency and a measurable reduction in faculty burnout and stress.

COGNIZANT, Chennai, India: Data Analyst August 2020 – July 2022

- Optimized ETL pipelines in Azure Synapse Analytics, reducing data processing time from 2 hours to 1.4 hours, enabling real-time sales reporting during peak business hours and improving decision-making speed.
- Migrated enterprise systems to **Azure Cloud**, consolidating siloed datasets into a centralized data warehouse, reducing storage costs by £37,000 annually, improving forecasting accuracy, and enhancing data accessibility across business units.
- Enhanced Spark-based data transformation applications in Synapse notebooks, boosting transformation speeds by 5x, supporting faster and more accurate retail demand forecasting, and significantly improving the agility of supply chain operations.
- Built resilient ETL pipelines with **Azure Data Factory**, reducing downtime from 20 to 8.6 hours per month and ensuring uninterrupted business intelligence access for stakeholders during critical decision-making periods.
- Developed **Power BI** dashboards to visualize detailed sales trends, enabling leadership to identify and address underperforming regions, which ultimately increased regional sales performance by 8% year-over-year.
- Created custom Power Apps solutions to simplify data entry for inventory tracking and automated workflows with **Power Automate**, reducing manual entry time by 25% and improving inventory report accuracy to prevent stock discrepancies.

ACADEMIC PROJECTS

ESTIMATION OF OBESITY LEVELS BASED ON EATING HABITS AND PHYSICAL CONDITION

- Conducted multivariate analysis to predict obesity levels in populations from Mexico, Peru, and Colombia. Applied machine learning techniques, including classification, regression, and clustering, to derive actionable health insights.

Data Migration

- Designed and executed a comprehensive data migration strategy from Amazon S3 to Azure SQL Server using Azure Data Factory. Implemented data filtering, staging, and transformation to ensure seamless transitions and data integrity.

EDUCATION

University at Albany, Albany, NY Aug 2022 - May 2024
Master's in Data Science 3.87/4.0