SACHIN LODDIYA KARTHIK

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• Open to relocation

SUMMARY

Highly skilled **Data Engineer** with 3+ years of experience driving efficiency through designing scalable data pipelines, optimizing ETL workflows, and delivering real-time analytics solutions. Proficient in PySpark, SQL, Azure Databricks, and Synapse, with demonstrated expertise in data modeling and lakehouse architecture. Committed to transforming complex raw data into actionable insights that empower business intelligence and strategic decision making.

TECHNICAL SKILLS

Data Engineering: Apache Spark, Apache Kafka, Apache Airflow, Databricks, Docker

Cloud Platforms: Azure (Data Factory, Synapse Analytics, DevOps), AWS (EC2, S3, Glue, Athena, Redshift), GCP

(BigQuery, Pub/Sub, Dataflow)

Programming: Python, R, T-SQL, Java, C, C++, HTML, CSS, JavaScript Databases: Azure SQL, Oracle SQL, MySQL, MS SQL Server, PostgreSQL

Visualization: Power BI, Tableau

ML & Libraries: Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch, OpenCV

Statistical Analysis: ANOVA, Hypothesis Testing, Regression Analysis

Tools: PyCharm, VS Code, Jupyter Notebook, R Studio, WinSCP, PuTTY, MS Office

EXPERIENCE

Data Engineer, WMU - USA

Jan 2025 - Apr 2025

- Designed an automated class scheduling solution using Google OR-Tools and constraint programming, reducing manual scheduling time by 85% and optimizing 200+ course assignments across 15 departments.
- Created and deployed a **Streamlit**-based UI to process 50+ CSVs with real-time validation, reducing data input errors by 90% and enabling interactive visualizations for 100+ faculty members.
- Reduced scheduling conflicts by 95% and eliminated over 40 hours/week of manual effort using optimization algorithms and an intuitive frontend.

Data Engineer, Green Expectations LLC - USA

Jan 2024 - Apr 2024

- Built backend infrastructure for an AI-powered sustainability platform using a rule-based House Sustainability Calculator, processing 1,000+ data points/user and improving recommendation accuracy by 35%.
- Developed secure user authentication with persistent session storage, enabling 100% individualized access for 500+ real-time users.
- Optimized data flows for an NLP-based AI chatbot, reducing latency by 40% and increasing engagement by 25%.

Data Engineer, Accenture - India

Jul 2021 - Jul 2023

- Engineered ETL pipelines using Azure Data Factory to reformat supply chain data into Parquet, improving processing efficiency by 40%.
- Processed raw supply chain data in Azure Databricks from Data Lake Gen2, boosting accuracy by 25% and halving transformation times.
- Developed external tables in Azure SQL and interactive Power BI dashboards, improving data access and increasing operational efficiency by 25%.
- Integrated ADF triggers, Databricks notebooks, and CI/CD pipelines with Azure DevOps, accelerating delivery by **30**%.

Data Engineer, Claritrics India Pvt Limited - India

Nov 2020 - May 2021

- Built an ETL pipeline using Azure Data Factory and Databricks for an OCR solution, boosting text extraction accuracy by 30%.
- Orchestrated end-to-end image processing workflows, reducing processing time by 40%.
- Improved team efficiency by 20% and accelerated project timelines by 30% using ADF triggers and Databricks job scheduling.

EDUCATION

Master of Science in Data Science

Aug 2023 - Apr 2025

Western Michigan University, Kalamazoo, Michigan

GPA: 3.86 / 4.00

Relevant Coursework: Machine Learning, RDBMS, Azure Databricks & Spark (PySpark / SQL), Applied Linear Models, Big Data Analysis, Google Cloud Big Data & ML Fundamentals