

Aditi Kharkwal

(206) 209-8952 | akhark@uw.edu | LinkedIn: [Aditi Kharkwal](#)

Objective

Detail-oriented and innovative Data Engineer with 3+ years of experience in designing, optimizing, and maintaining scalable data pipelines. Proficient in Python, SQL, and cloud platforms such as AWS and GCP, with a strong background in ETL development, real-time data processing, and big data tools.

Education

University of Washington Master of Science in Data Science	September 2022 - March 2024 CGPA: 3.88/4.0
Vellore Institute of Technology Bachelor of Technology in Information Technology	July 2016 - May 2020 CGPA: 8.5/10

Technical Skills

Programming Languages:	Python, SQL, R
Data Analysis:	A/B Testing, Statistical Modeling, Predictive Analytics, Data Visualization
Tools:	Tableau, Power BI, Apache Spark, Apache Airflow, Hadoop, SAP BODS, UiPath
Database Systems:	Oracle, MySQL, SAP HANA, Snowflake, Hive
Cloud Platforms:	AWS, GCP

Professional Experience

Data Engineer Micron Technology	April 2024 - Present
<ul style="list-style-type: none">Developing and optimizing ETL pipelines to integrate various data sources (SAP, Snowflake, JDBC) into Celonis for enhanced process scalability and data architecture efficiency.Collaborating with Supply Chain and Global Procurement stakeholders to streamline data flows, improving inventory forecasting accuracy and optimizing procurement processes for cost savings and operational efficiency.Leading migration efforts to Snowflake, optimizing data processes for improved distributed systems.Implemented and automated pipeline using LLMs to extract data from PDF, convert to JSON format and ingest into SAP, reducing data processing time by 20% and manual entry by 99%, while enhancing data accuracy.	
Data Analyst Intern Micron Technology	June 2023 - September 2023
<ul style="list-style-type: none">Analyzed enterprise architecture to streamline data pipelines and ensure efficient data processing workflows.Developed a Tableau dashboard providing insights into infrastructure cost and capacity utilization, reducing manual refresh time by 20 minutes daily.Identified and resolved data gaps, improving data accessibility and efficiency for Snowflake migration.	
Business Intelligence Developer Wolters Kluwer	January 2020 - September 2022
<ul style="list-style-type: none">Automated scalable ETL pipelines, enhancing data processing efficiency by over 30%.Orchestrated database migration from Oracle to SAP BW, achieving 95% accuracy in data extraction and reducing report runtime by 30 minutes.Designed, developed and optimized SAP reports and Dashboards converting business requirements into actionable data insights.	

Projects

- Generating synthetic data for AWS to test resilience of their new hard drives:** Used and compared various statistical and Generative models to generate conditional synthetic data, with Gaussian Copula achieving the highest data quality of 92% compared to all models.
- Stacked Ensemble Machine Learning:** Created a University Admission Prediction System with a 15% improvement in accuracy using Stacked Ensemble Learning.
- Statistical modelling to identify most dangerous intersections in WA state:** Analyzed traffic data using statistical models to assess factors like traffic volume, weather, and time of day. Results showed intersections with high traffic volume and poor weather conditions had a 30% higher likelihood of severe accidents. Identified the top 10 most dangerous intersections.

Certifications and Affiliation

- Azure Open AI certification
- Microsoft Learn Student Ambassador (Dec 2017 - June 2020)
- Mentorship co-Pillar Lead for Women's Initiative Network at Wolters Kluwer (June 2020 - March 2021)
- Commerce Lead for Micron Young Professionals (August 2024 - current)
- Graduate speaker at University of Washington MSDS Graduation.