

Adam Mohamed

Quantitative Analyst & Analytics Engineer

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🌐 <https://ads2024.github.io/>
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🔄 Ads2024

Data Analyst & Analytics Engineer with 3+ years of experience across FMCG, assembly manufacturing, and utilities. I specialize in building forecasting models, optimization tools, and self-serve BI systems using Python, SQL, DAX, and Databricks. My work spans automated reporting pipelines, statistical anomaly detection, and scalable data infrastructure, all backed by Git-based CI/CD workflows. Currently completing a Master of Computer Science to deepen my capabilities in distributed systems, machine learning, and analytics product development.

Technical Skills

Data Science & Analytics	Forecasting, A/B Testing, Linear Regression, Anomaly Detection, Statistical Modeling
Programming & Tools	Python (pandas, numpy, matplotlib), SQL, PowerShell, Git, CI/CD, VS Code, Jupyter
Business Intelligence	Power BI (DAX, Power Query, RLS/OLS), Tableau, Streamlit, Semantic Modeling, Report Optimization
Data Engineering	ETL Pipelines, Data Warehousing, Star/Snowflake Schema, Time-Series Data, Azure Data Factory
Cloud Platforms	Microsoft Azure (SQL, DevOps, Data Factory), Databricks, Docker

Professional Experience

Data Analyst

Jan 2024 – **Data Analyst**, *Downer EDI*, Sydney
Present

- Developed CI/CD-enabled BI dashboards using Power BI, SQL, and Python, reducing manual effort by 50%
- Built anomaly detection workflows for ticketing metrics using statistical modeling
- Designed relational schemas in Oracle to improve query performance and consistency
- Led Git-based version control implementation for BI assets to improve governance and team collaboration

Supply Chain Data Analyst

Jul 2022 – **Supply Chain Data Analyst**, *Snack Brands Australia*, Sydney
Dec 2023

- Migrated planning from legacy MS Access to Power BI, boosting data capability by 80%
- Developed Azure Data Factory pipelines and Snowflake schemas for cross-functional reporting
- Applied A/B testing and linear programming to cut operational costs by 25%
- Led inventory forecasting with statistical modeling, reducing holding costs by 15%
- Built real-time KPI dashboards with anomaly detection for supply chain monitoring

Operations Analyst

Aug 2021 – **Operations Analyst**, *Rode Microphones*, Sydney
Jul 2022

- Developed real-time dashboards to track production KPIs and improve throughput visibility
- Identified process bottlenecks through statistical analysis, increasing throughput by 25%
- Automated reporting workflows, saving 10+ hours of manual effort per week
- Conducted A/B testing on packaging processes, improving labor efficiency by 70%

Freelance Projects & Portfolio

Freelance BI Projects Delivered custom BI dashboards and analytics apps for manufacturing clients using Power BI, Streamlit, and Python. The projects include real-time OEE tracking, labor optimization and predictive maintenance tools. Other projects can be found here - *Portfolio*: [Portfolio.io](#)

Education

Current **Master of Computer Science (Part-time)** — University of Sydney
2024 **Graduate Certificate in Computer Science** — Monash University (WAM: 84%)
2021 **Master of Commerce** — University of Sydney
2017 **Bachelor of Science (Hons) in Biological Sciences** — University of Leicester

Certifications

Microsoft Certified: Power BI Data Analyst Associate (PL-300)
Databricks Lakehouse Fundamentals
HackerRank SQL (Advanced)
HackerRank SQL (Intermediate)