

Mankirat Singh Bhamra

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SUMMARY

Data Engineer skilled in building scalable pipelines, optimizing SQL, delivering analytics on Azure, Snowflake, and Databricks. Partnered with clients to align business needs with technical solutions, cutting **150+ hours** of manual work and **\$300,000+** in operational costs

WORK EXPERIENCE

Data Engineer, Forman Tech

Sept 2024 – Present

- Automated ingestion of e-commerce, point-of-sale, loyalty data using **Azure Data Factory**, eliminating 150+ hours of manual work.
- Designed and optimized **Snowflake** fact/dimension models and tuned complex SQL queries (window functions, partitions, clustering), reducing query runtime by 70% across 10M+ transactions.
- Engineered curated Delta Lake tables in Databricks from Shopify, supplier and POS feeds, driving a 20% decrease in out-of-stock products.
- Applied window functions and **SQL query optimization** to support demand forecasting, reducing excess inventory by 10% and stockouts by 20%.
- Built real-time pipelines for IoT fleet and shipment telemetry using **Spark Structured Streaming and Kafka**, improving on-time deliveries by 12% and avoiding \$300,000+ in SLA non-compliance
- Modeled datasets with Kimball star schemas and delivered **Tableau** dashboards, improving fleet utilization and operational efficiency.

Business Intelligence Analyst, M/S Witball Co.

Jan 2021- July 2022

- Analyzed website traffic data from 1.5M+ users using SQL and Google Analytics to uncover trends and improve KPIs.
- Boosted user engagement by 20% and cut bounce rate by 25% via **Google Analytics** and Power BI insights.
- Built Power BI dashboards for technical and non-technical audiences enhancing stakeholder-ready reporting and decision-making
- Improved CTR by 2% through **A/B testing** of content and ad placements using SQL.
- Delivered competitor analysis via SQL-based insights and Power BI visualizations, aiding in retaining competitive advantage

Research Analyst, DJSC

Dec 2020 - Jan 2021

- Conducted exploratory data analysis on data of 240 Electronics students, leading to improved understanding of student performance trends
- Validated 1,200+ data points using **Advanced Excel functions**, ensuring 95%+ accuracy for actionable insights.
- Built interactive Tableau dashboards to visualize performance trends, enhancing decision-making for academic improvements
- Insights influenced curriculum changes, contributing to a 15% rise in job and graduate degree readiness ratings.

Business Analyst, MedTourEasy

Oct 2020 - Dec2020

- Utilized advanced Microsoft Excel functions and **R programming** to analyze **Electronic Health Records (EHR)** of 3,000 patients, enabling efficient resource allocation for patient care.
- Developed a predictive model in RStudio using blood culture, antibiotics data to identify sepsis infections based on four criteria, enhancing early detection and treatment planning.

ACHIEVEMENTS

RSM US LLP, Alteryx Datathon Finalist (UT Dallas)

- Ranked in top 100 for solving a real-world business case, recommended top 3 conference locations by analyzing cost and logistics.
- Recommended top 3 locations for hosting an in-person employee conference by analyzing travel, accommodation, facility costs, and time
- Achieved 30% cost reduction and helped save over \$75,000 through data-driven insights.
- Utilized Excel Pivot Tables, Alteryx Designer for data processing, and Tableau Desktop for visualization

Student Mentor, The University of Texas at Dallas – Business Analytics Leadership Council (BALC)

- Appointed as a student mentor for incoming, current and prospective Master's in Business Analytics students
- Displayed strong leadership, written and verbal communication skills while acting as a bridge between the leadership and the students.
- Designed a Power BI dashboard using real-time job application data to guide students on effective and efficient job search strategies.

TECHNICAL SKILLS AND CERTIFICATIONS

Certifications: Microsoft Azure Fundamental - AZ-900, AWS Academy Graduate, Microsoft Power BI Data Analyst Associate, Tableau eLearning certified Data Analyst, Google Analytics 4 certified, Campaign Manager 360 certified, Alteryx Designer Core

Programming languages: Python, SQL, R programming, C

Data Visualization: Tableau, Microsoft Power BI, SAP Analytics Cloud

Database: MSSQL, MySQL, PostgreSQL,

Analytics Tools: Excel, Google Analytics, Looker, Alteryx, SAP Hana, SAP Datasphere

Cloud: AWS, Azure

PROJECTS

• Spotify - ETL pipeline using Python and Airflow

Built an ETL pipeline using Spotify's API to extract, transform, and load data into an SQLite database, ensuring data integrity with quality checks in Python's Pandas and automating tasks with Airflow DAGs in Docker.

• Startup venture Funding Analysis

Analyzed data from 50,000 startup companies and built a Tableau dashboard to inform investment decisions, using MySQL to extract KPIs like profit margin and revenue growth to guide strategies.

EDUCATION

The University of Texas at Dallas

May2024

Master of Science in Business Analytics

The University of Texas at Dallas

May 2024

Graduate Certificate in Business Intelligence and Data Mining