

Vatsal Rakholiya

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Summary

Data Analyst with 3+ years of experience in SQL, Python, Power BI, Tableau, data analysis, reporting, ETL, and data quality. Skilled in developing dashboards, optimizing queries, automating reporting workflows, integrating data, and delivering actionable business insights. Experienced with AWS, Azure, Snowflake, SQL Server, PostgreSQL, Oracle, and Generative AI tools including ChatGPT and Microsoft Copilot.

Technical Skills

Data Analytics & BI

Data Analysis, Exploratory Data Analysis, KPI Reporting, Dashboard Development, Business Intelligence, Ad Hoc Analysis, Trend Analysis, Data Visualization, Power BI, Tableau, Power BI Report Builder

Data Engineering & ETL

ETL/ELT, Data Integration, Data Pipelines, Data Transformation, Data Cleaning, Data Quality, Data Validation, Data Reconciliation, Workflow Automation, SSIS, Alteryx, Apache Airflow, AWS Glue

Data Modeling & Governance

Dimensional Modeling, Semantic Modeling, Data Warehousing, Star Schema, Data Transformation Models, Data Lineage, Metadata Management, Data Governance, Data Quality Management

SQL & Databases

SQL, Advanced SQL, Query Optimization, Stored Procedures, Relational Databases, Database Design, Schema Development, Data Validation, Data Reconciliation, Indexing, Performance Tuning, SQL Server, PostgreSQL, Oracle, MySQL

Cloud & Data Platforms

AWS, Amazon S3, Amazon Redshift, Azure, Azure Data Lake, Snowflake, Cloud Data Platforms, Data Warehousing, Cloud Data Integration

Programming, AI & Automation

Python, Pandas, NumPy, Python Automation, Scripting, REST API Integration, Generative AI, AI-Assisted Data Analysis, Prompt Engineering, Microsoft Copilot, ChatGPT, AI-Assisted Reporting, AI-Powered Data Insights

Experience

Data Analyst, Loblaw Companies

11/2025 – Present

- Analyze 50K+ business records monthly using Advanced SQL and Python to identify trends, anomalies, and performance patterns, supporting 10+ recurring management reports and business performance reviews.
- Develop and maintain 4+ Power BI and Tableau dashboards tracking 20+ KPIs, enabling stakeholders to monitor business performance, identify trends, and support data-driven decisions.
- Optimize SQL queries and stored procedures across relational databases, improving average query execution time by 15% and increasing the efficiency of recurring reporting processes.
- Automate 3+ recurring data preparation and reporting workflows using Python and ETL tools, saving approximately 10 hours per month in manual reporting effort.
- Consolidate and reconcile data from multiple business sources across SQL Server, PostgreSQL, Oracle, and cloud platforms to improve data consistency and support reliable reporting.
- Apply Generative AI, Microsoft Copilot, ChatGPT, and prompt engineering to analytical and reporting tasks, reducing routine preparation time by approximately 8%.

Junior Data Analyst, AIS Technolabs

07/2022 – 08/2024

- Performed data validation and quality checks on 10K+ records monthly, identifying missing values, duplicates, formatting issues, and inconsistencies to improve data accuracy.
- Prepared and transformed data across 10+ business datasets using SQL, Python, Pandas, and NumPy to support ad hoc analysis and operational reporting.
- Conducted exploratory data analysis on 8+ datasets, identifying outliers, patterns, correlations, and unusual data behavior to support business investigations.
- Supported 3+ ETL/ELT workflows using SSIS, Alteryx, AWS Glue, and Apache Airflow, assisting with data extraction, transformation, validation, and workflow monitoring.
- Assisted with dimensional and semantic data modeling, working with fact and dimension tables, star-schema concepts, and reporting data structures.
- Documented 20+ data sources, business definitions, transformation rules, and analytical processes to improve consistency and knowledge sharing within the team.

Project

Industrial Image Processing & Color Separation Automation System

- <https://separation-desk-production.up.railway.app/>
- Automated CMYK/TIFF artwork separation with channel extraction, tolerance-based mask

Cryptocurrency Market Intelligence & Prediction Platform

- <https://github.com/Vatsal-Rakholiya/Predictive-Cryptocurrency>
- Architected an analytics platform tracking 16,000+ cryptocurrencies via automated ingestion pipelines from market APIs.
- Trained LSTM and Gradient Boosted Tree models to forecast weekly price movement, and integrated BERT-based news/social sentiment analysis into interactive investment dashboards.

Document Intelligence System

- <https://github.com/Vatsal-Rakholiya/Document-Intelligence-System>
- Built a RAG-based document platform for summarization, semantic search, sentiment extraction, and Q&A using transformer embeddings, FAISS indexing, and a FastAPI/Streamlit stack.

Housing Operations Hub

- <https://housing-operations-hub-production.up.railway.app/>
- A Housing Operations Hub designed as an evidence workspace to organize housing-related operational data, documents, and case information in one place. It appears focused on making housing operations easier to track, review, and manage through a centralized web application.

Certification

• Understanding and Visualizing Data with Python	• Machine Learning Pipelines with Azure ML Studio	• Business Analysis & Process Management
• AWS S3 Basics	• Fundamentals of Quantitative Modeling	• Agile Project: Product Prototype Touchpoint Analysis in Miro

Publication

Adversarial Vulnerabilities in Machine Learning: Differential Analysis of Gradient and XGBoost-Based Attack Mechanisms	01/10/2025
Paper ID: ICUIS-383	

Education

Post Graduate Diploma, Financial Technology , <i>Seneca Polytechnic</i>	09/2025 – 04/2026
Post Graduate Diploma, Artificial Intelligence , <i>Fleming College</i>	09/2024 – 04/2025
Bachelor of Engineering, Information & Communication Technology <i>Gujarat Technological University</i>	08/2020 – 05/2023