

Aayushi Patel

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Professional Summary

Business Intelligence and Data Analyst with 3+ years of experience in SQL-based data analysis, reporting, and dashboard development. Strong background in transforming raw data into actionable insights using Power BI, Python, and ETL pipelines, with proven ability to communicate findings to technical and non-technical stakeholders.

Technical Skills

Data Analysis & BI: Advanced SQL, Power BI, DAX, Excel, Tableau, Crystal Reports

ETL & Databases: SQL Server, SSIS, Data Modeling, Data Ingestion, Views, Indexing, Data Warehousing

Programming: Python (pandas, NumPy, scikit-learn), Machine Learning basics

Tools & Methods: JIRA, Confluence, Git, GitHub, Agile, SDLC

Cloud: AWS

Work Experience

Business Analyst & BI Developer

10/2019 – 03/2022

Amnex Infotechnologies, Ahmedabad, India

- Analyzed large-scale transit datasets using advanced SQL queries, improving operational efficiency by 30%.
- Developed SQL views and integrated them into interactive Power BI dashboards for data exploration.
- Created analytical reports to support data-driven decision-making across business teams.
- Collaborated with stakeholders to gather, validate, and translate requirements into BI solutions.

Business Analyst Associate

07/2018 – 08/2019

CreArt Solution, Ahmedabad, India

- Documented business and functional requirements using Confluence and process workflows.
- Supported data validation and defect tracking using JIRA in collaboration with development teams.
- Created process diagrams and workflow documentation to improve operational clarity.

Projects

End-to-End Sales Analytics Dashboard — Power BI, SSIS, SQL Server

- Built a complete ETL pipeline using SSIS to load Excel sales data into SQL Server.
- Performed data cleansing, datatype standardization, and transformation in SQL.
- Created calculated metrics such as total sales amount (quantity × unit price).
- Designed an interactive Power BI dashboard with KPIs, category analysis, geographic mapping, and date slicers.

Weather Forecast Dashboard

- Developed an interactive weather analytics dashboard using Python, Streamlit, Plotly, and Prophet.
- Integrated Open-Meteo APIs to visualize real-time and predictive temperature trends.

Sales Data Warehouse & ETL Pipeline (Chinook) — SQL Server (SQL Server, Data Modeling, Star Schema, Query Optimization)

- Designed a layered ETL architecture (raw, staging, analytics schemas) in SQL Server to simulate production-grade data warehousing.
- Performed complex multi-table joins across Customer, Invoice, InvoiceLine, Track, Album, Artist, and Genre tables to build a denormalized FactSales table.
- Implemented data cleaning, transformation logic, derived metrics (LineTotal), and data quality validation using INNER and LEFT joins.
- Applied indexing strategy on foreign key columns and optimized query performance using execution plan analysis.
- Designed star-schema concepts and defined fact table grain for scalable analytical reporting.

Agricultural Data Analysis and Reporting

- Analyzed agricultural datasets and built visualization dashboards using Power BI and Tableau.

Education

Master of Applied Computing

05/2022 – 09/2023

University of Windsor, Windsor, Canada

Bachelor of Computer Science

08/2015 – 03/2019

Gujarat Technological University, Ahmedabad, India

Certifications

AWS Developer Associate (04/2024)

Visualization with Tableau — Coursera (02/2022)