

Sakshi Khose

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SUMMARY

Data Analyst with 3+ years of experience delivering actionable insights across finance, procurement, and operations domains. Expert in advanced SQL and Python-based analysis to build reliable datasets, define KPIs, and create executive-ready dashboards. Proven track record of improving data quality, reducing reporting turnaround time, and partnering with cross-functional stakeholders to drive data-informed decisions. Master's in Management Information Systems with enterprise experience at Oracle and EY.

PROFESSIONAL EXPERIENCE

ORACLE

Aug 2022 - Jul 2024

Data Analyst

- Partnered with Product, Engineering, and Operations stakeholders to analyze legacy loan data and define business-critical reporting requirements during the HDFC Bank transition, preserving accuracy of 20+ loan performance KPIs and avoiding reporting disruptions during migration.
- Automated and optimized loan data transformations using advanced SQL, reducing loan processing timelines by 10 days and enabling faster operational reporting for business teams.
- Improved reliability of analytical datasets by standardizing data update processes, reducing reporting errors and supporting timely delivery of dashboards used by 20+ business stakeholders.
- Designed automated data quality checks using Python and SQL to validate financial and procurement datasets, reducing reporting anomalies by 15% and improving trust in business-critical metrics.
- Winner, Global Oracle Hackathon (3rd of 314 teams): Built an analytics solution that analyzed customer call transcripts to surface sentiment trends, enabling faster identification of customer experience issues and supporting data-driven prioritization for business teams.

ERNST & YOUNG LLP

Jul 2021 - Aug 2022

Data Analyst

- Analyzed and automated regulatory reporting data by integrating external tax APIs with internal datasets, eliminating manual data entry and improving compliance accuracy by 30%.
- Analyzed high-volume financial transaction data at DTCC using SQL on Hive, optimizing data organization to improve query performance and reliability for regulatory and operational reporting.
- Enabled self-service analytics for procurement teams by optimizing SQL queries on Presto, reducing reporting turnaround time from hours to seconds and accelerating data-driven decision-making.
- Designed and supported interactive Tableau dashboards for Farah Experiences LLC, improving visibility into business KPIs and driving a 15% increase in data-driven decision speed.
- Supported procurement data migration by validating datasets and enforcing data quality standards, ensuring accurate reporting and compliance across Oracle Purchasing systems.
- Partnered with global stakeholders to define BI requirements and deliver dashboards that addressed key business questions, driving a 15% increase in data-driven decision-making.

EDUCATION

Master's in Management Information Systems

Aug 2024 - Dec 2025

University of Arizona, Tucson, AZ

Coursework: Enterprise Data Management, Data Mining and Business Intelligence (GPA: 4.0/4.0)

Teaching Assistant (DBMS): Supported instruction in advanced SQL optimization, dimensional data modeling, and analytical query design, helping students translate business questions into efficient, insight-driven data analysis.

B.E. in Information Technology

Aug 2017 – Jul 2021

University of Mumbai, India

Coursework: Big Data Analytics, Data Structures and Algorithms (GPA: 3.6/4.0)

TECHNICAL SKILLS

- Languages:** Python (Pandas, NumPy), SQL (Advanced), PL/SQL, R, Excel (Pivot Tables, Lookups)
- BI & Visualization:** Tableau, Power BI
- Databases & Query Engine:** RedShift, SnowFlake, Oracle, Hive, Presto
- DevOps & Tools:** Git, JIRA, Visual Studio Code
- Concepts:** Dimensional Modeling, Star/Snowflake Schema, Data Warehousing, REST APIs, Agile Methodologies
- Advanced Competencies:** Data Quality Testing (Great Expectations, PyTest), A/B Testing & Metric Definition.

PROJECTS

AI FUSION QUERY GENERATOR

- Built a Python-based analytics tool that translated natural language business questions into validated SQL queries, enabling non-technical stakeholders to self-serve data insights without engineering support.
- Leveraged database metadata to ensure 99% SQL accuracy, significantly reducing ad-hoc data requests and accelerating insight turnaround for business teams.
- Tech Stack:** Python, SQL, Generative AI APIs

SELF-SERVICE ANALYTICS & DASHBORD FOR EXTERNAL DATASETS

- Analyzed and integrated external datasets (weather, demographics) to support sales and performance analysis, enabling stakeholders to explore trends and correlations through interactive dashboards.
- Designed a dimensional data model (star schema) to support analytical queries, reducing query execution time by 40% and improving dashboard responsiveness.
- Built Power BI dashboards to visualize sales performance against external factors, helping business teams identify regional trends and data-driven opportunities.
- Tech Stack:** SQL, Python, Power BI, AWS Redshift, REST APIs

PRODUCT FUNNEL & RETENTION ANALYSIS (E-commerce Analytics)

- Analyzed user behavior data to evaluate end-to-end purchase funnel performance, identifying key drop-off points from product view to purchase.
- Built SQL-based funnel and cohort retention analysis, measuring Day 1, Day 7, and Day 30 retention across customer segments.
- Developed Tableau dashboards to visualize conversion rates, retention trends, and revenue metrics, enabling data-driven recommendations to improve user conversion and engagement.
- Tech Stack:** SQL, Python (pandas), Tableau