

Swapnil Deore

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SUMMARY

Data Engineering and Analytics professional with 3+ years of experience in building scalable data pipelines, ETL processes, data modeling, tracking KPIs and designing data-driven solutions. Proficient in Python, SQL, Azure Databricks, PySpark, Tableau, AWS, Snowflake, Power BI and Dbt with strong focus on optimizing data workflows and enabling business intelligence solutions.

EXPERIENCE

Data Analyst, Syracuse University

September 2024 - Present

- Engineered ETL pipelines in Azure Databricks using PySpark to process 10 million alumni records from Azure Data Lake into Snowflake, reducing data processing speed by 60% and enabling real-time insights for career networking opportunities.
- Created Dbt models to transform raw alumni data into a clean, scalable OLAP star schema, making it easier to build fast, insightful Tableau dashboards that support alumni engagement and networking initiatives for university students.
- Developed Tableau KPI dashboards integrated with campus store's data warehouse to analyze sales trends and restocking cycles, driving data-driven inventory strategies that resulted in \$50K+ annual savings by minimizing excess stock.
- Orchestrated daily workflows using Dbt (data build tool) and Dagster to transform and load data into Snowflake, enabling real-time Tableau insights and improving inventory decisions through consistent, reliable pipeline execution.
- Conducted A/B testing on product pricing, analyzing sales data to identify the most effective approaches, resulting in 10% increase in sales and more efficient inventory management at Syracuse University campus store.

Data Science Intern, Prompt Marketing Agency

June 2024 - August 2024

- Led conversational analysis of follower interactions on Lidl CEO's LinkedIn profile using SQL and ML (Langchain) models; uncovered top-performing content themes and trending topics, leading to 80,000+ increase in profile engagement.
- Conducted data analysis efforts using Salesforce CRM systems to explore market trends, customer behavior, and audience segmentation, contributing insights that helped my client Cetaphil increase annual consulting bookings by approximately 4%.
- Built campaign KPI dashboards in Power BI utilizing DAX formulas and calculated columns, streamlining marketing performance reporting and directing 12% improvement in ROI by enabling quicker insights and data-driven decision-making.
- Analyzed over 70K marketing interaction records using Python libraries (NumPy, Pandas, Matplotlib), performing granular EDA surfaced high-performing segments and enabled 15% increase in ad engagement rates.
- Collaborating with cross-functional teams utilizing Jira and Confluence to gather requirements and create Business and Functional Requirement Documents (BRDs/FRDs), driving delivery of data-driven solutions in agile sprints for marketing.

System Engineer, Tata Consultancy Services

September 2020 - July 2022

- Performed User Acceptance Testing (UAT) for Financial Information Exchange (FIX) API data pipelines, configuring message sessions, troubleshooting latency and network issues for clearing corporations and broker firms at the National Stock Exchange.
- Managed 100 million daily trading transactions, ensuring data integrity and security across FIX applications on servers.
- Created and maintained comprehensive data lineage and metadata documentation to support regulatory audits, ensuring full transparency in data transformations, and meeting compliance requirements for accurate financial reporting and audits.
- Devised robust checksum-based data validation mechanism in ETL pipelines for broker and clearing firm trades, ensuring end-to-end data integrity and 100% accuracy, leading to reduced manual reconciliation efforts by 70%.
- Supported the development of data governance policies at NSE, ensuring compliance with data protection regulations and utilizing VBA, Lookup functions, and Pivot Tables to enhance data reporting and analysis.

EDUCATION

Master of Science in Information Systems

CGPA: 3.8/4.00

May 2024

Syracuse University, Syracuse, New York, USA

Bachelor of Engineering in Computer Science

CGPA: 3.6/4.00

June 2020

University of Mumbai, Mumbai, Maharashtra, India

PROJECTS

Airbnb ELT Pipeline | Dbt, Dagster, SQL, AWS S3

March 2024 - April 2024

- Transformed 250K+ Airbnb booking records using Dbt models, enabling insights on booking trends and host profitability.

Analyzing Engineering Subreddits | Airflow, AWS S3, Redshift, Tableau

June 2023 - July 2023

- Built real-time data pipeline to process engineering subreddit conversations, revealing 42% growth in AI/ML related topics.

SKILLS

- Programming and Analytics:** Python, SQL, R, C++, HTML/CSS, NumPy, Pandas, Matplotlib, Seaborn, PySpark, NLP, PyTorch, TensorFlow, Jupyter, PyCharm, Visual Studio, Data Wrangling, Data Mining, Visualization, Statistical Modeling, EDA, A/B Testing
- Data Engineering/Big Data:** Airflow, Kafka, Hadoop, Spark, Informatica, Dbt, Kubernetes, EMR, AWS Glue, Azure Data Factory
- Business Intelligence Tools:** Tableau, Power BI, Looker, Qlik, Alteryx, GIS, Gitlab, Docker, SDLC, Agile/Scrum, Waterfall
- Database and Cloud Platform:** Databricks, Snowflake, AWS Redshift, PostgreSQL, MySQL, Google BigQuery, CRM, SAP, AWS (S3, IAM, Glue), GCP, Azure, ERP systems, Salesforce CRM, MongoDB, SAS, SSRS, SSIS, Fivetran, Matillion