Swapnil Deore

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EXPERIENCE

Syracuse University   **September 2024 – Present**
Research Assistant   *Syracuse, NY*

- Built **PySpark** SQL data pipelines to load + transform 10M+ alumni records from Azure Data Lake to Snowflake, cutting batch processing time by 60% (from 5 hrs → 2 hrs) and accelerating analytics for student-alumni networking initiatives.
- Developed **Dbt models** to transform raw alumni data into structured, analytics ready datasets within Snowflake, enhancing business intelligence solutions to facilitate student-alumni connections and support.
- Optimized inventory restocking management at the university store by developing **Tableau** dashboard to analyze sales.
- Mentored 75+ students in **Data Visualization using Tableau** coursework, providing guidance on analytics and dashboard design.
- Created **Langchain GPT-4** chat model to automate sentiment analysis of 300+ student forum discussions, identifying key pain points in event planning leading to 25% increase in post-event satisfaction scores.

Prompt Marketing Agency   **May 2024 – August 2024**
Data Science Intern   *New York, NY*

- Increased Lidl CEO's LinkedIn profile engagement by over **80,000 users** by conducting conversational analysis on follower interactions using Python and Tableau, delivering data-driven strategies to enhance engagement.
- Created 5 dashboards in **Tableau** for various projects to track KPIs and visualize key insights on product performance, reviews, engagement and marketing campaigns supporting clients to take data-driven decisions.
- Conducted market research for granola bar client using **Talkwalker** to perform competitor analysis and identify consumer preferences, providing insights that shaped the client's entry strategy into the US Gen-Z market.
- Maintained **Data marts** in Snowflake using dbt to create materialized views enabling different teams to take data driven decisions.
- Partnered with senior managers to analyze **A/B test** results (Google Analytics + SQL) optimizing digital ad spend by 18%.

National Stock Exchange   **September 2020 – July 2022**
Data Engineer   *Mumbai, India*

- Managed 100 million daily trading transactions using **FIX protocol** to process data for settlements across National Stock Exchange servers to ensure data integrity and secure transactions.
- Monitored and fine-tuned **ETL** pipelines to handle peak trading volumes, ensuring 99% up-time during high market activity.
- Implemented checksum **data validation** methods for broker-sourced trading data (NSE settlements), ensuring 100% accuracy in transactional records and reducing reconciliation mismatches by 90%.
- Produced **30+ ad hoc reports** for various teams at National Stock Exchange using tools like Tableau and Excel to present insights.
- Conducted **User Acceptance Testing (UAT)** at the National Stock Exchange, setting up and configuring FIX APIs for trading integrations with clearing corporations and broker firms supporting over 150+ successful trading connections.

EDUCATION

Syracuse University   **August 2022 – May 2024**
Master of Science, Information Systems   *Syracuse, NY*

University of Mumbai   **June 2016 – June 2020**
Bachelor of Engineering, Computer Engineering   *Mumbai, India*

TECHNICAL SKILLS

Languages: Python, SQL, NoSQL, HTML, CSS
Databases: PostgreSQL, MongoDB, SQLite, Databricks, Snowflake, Dbt, Redshift, Google BigQuery, CRM
Packages: Numpy, Pandas, Matplotlib, Seaborn, Langchain, Airflow, Kafka, PySpark, NLP
Tools: VS Code, Tableau, Power BI, GIS, Git, Docker, Jupyter Lab

PUBLICATION

EDP Sciences: Published research paper on data mining algorithms, focusing on the efficiency of the Top-K algorithm for supermarket sales, demonstrating its superiority in scalability and resource optimization compared to the UP-Growth algorithm. (Link to the paper)

CERTIFICATIONS

- Certificate of Advanced Study in Data Science - Syracuse University
- Certified Excel Specialist - Microsoft
- Advanced Data Analytics – Google
- Tableau Specialist