

# Swapnil Deore

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## WORK EXPERIENCE

### Syracuse University

September 2024 – Present

Research Assistant, Data Science Team

- Deployed Tableau dashboard to **optimize inventory restocking** at the university store, reducing stockouts for different seasons.
- Implemented workflows using **Airflow** and **Snowflake** to streamline data gathering, cleaning, and processing by implementing efficient ELT pipelines, automating loading data into Snowflake warehouses for querying and analysis.
- Performed exploratory data analysis (EDA) with NumPy and pandas to identify **root cause of low participation** in university events, applying t-tests and chi-square tests to uncover insights that led to increase in event footfall by 300+ students.
- Evaluated student feedback using Langchain GPT-4o chat model to understand **sentiments and reviews** that led to improvements in events and 25% increase in event ratings.

### Prompt Marketing Agency

June 2024 – August 2024

Data Science Intern, Business Intelligence Team

- Increased Lidl CEO's LinkedIn profile engagement by over **5,000 users** by conducting sentiment analysis on follower interactions using Python and Tableau, delivering actionable insights to boost engagement.
- Developed **5 dashboards in Tableau** for various projects to track KPIs and visualize key insights on product performance, engagement metrics, and marketing campaigns empowering clients to make data-driven decisions.
- Conducted market research for a granola bar client using **Talkwalker** to perform **competitor analysis**, identify emerging market trends, and consumer preferences, providing insights that shaped the client's entry strategy into the US Gen Z market segment.
- Created LangChain Anthropic chat models to analyze forum and social media data, providing senior stakeholders with real-time insights on **user sentiments** and **emerging trends**.

### Tata Consultancy Services

September 2020 – July 2022

Business Intelligence Engineer, National Stock Exchange Analytics Team

- Managed **200 to 300 million** daily trading transactions using Google Cloud Platform and Google BigQuery to process data across 7 different security layers through TCP/IP to ensure data integrity and secure transactions.
- Created views and stored procedures in SQL to process and analyze **10 terabytes of real-time trading data daily**, enhancing query efficiency and streamlining reporting to Managers.
- Coordinated with cross-functional teams at National Stock Exchange to implement **robust data governance frameworks**, ensuring data integrity and compliance with industry standards.
- Produced **30+ ad hoc reports** for various teams at National Stock Exchange utilizing tools such as Tableau, Spreadsheets and Latex.

## EDUCATION

### Syracuse University

August 2022 – May 2024

Master of Science, Information Systems

Relevant Coursework: Business Intelligence, Data Analysis and Decision Making, Natural Language Processing, Data Visualization

### University of Mumbai

June 2016 – June 2020

Bachelor of Engineering, Computer Engineering

Relevant Coursework: Data Science, Artificial Intelligence, Machine Learning, Business Analytics, Python Programming, Databases

## TECHNICAL SKILLS

**Programming Languages:** Python, R, SQL, NoSQL, HTML, CSS, C

**Libraries:** Numpy, Pandas, Matplotlib, Seaborn, Ggplot2, Dplyr, Tidyverse, Shiny, Langchain

**Tools:** MySQL, PostgreSQL, Google Big Query, Tableau, Snowflake, Airflow, Redshift, Power BI, Kafka, Spark, S3

**Other Skills:** Git, Statistical Analysis, A/B Testing, VBA, Pivot Tables, Docker, Talkwalker

## PROJECTS

### Data Engineering subreddits - [Project Link](#)

January 2024 – March 2024

- Designed and built ETL pipeline using Apache Airflow to extract **real-time Reddit data** for the Data Engineering subreddit.
- Leveraged Amazon S3, Athena, and Redshift to analyze Reddit discussions, identifying trends in data engineering which revealed growing interest in **AI-driven automation** and **cloud-based data solutions**.

### British Airways Customer Experience - [Project Link](#)

October 2023 – December 2023

- Developed Tableau dashboard to visualize trends in passenger reviews, revealing that flights on newer aircraft types received **20% higher satisfaction ratings**, indicating a strategic opportunity for British Airways to optimize customer experience.