

# Swapnil Deore

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## EXPERIENCE

### Syracuse University

September 2024 – Present

Research Assistant, Data Science Team

Syracuse, NY

- Reduced stockouts by developing **Tableau** dashboard to optimize inventory restocking at the university store.
- Built **PySpark** batch processes using SQL to fetch and analyze alumni data from **AWS S3**, reducing processing time by 60%.
- Produced **30+ ad hoc reports** for various teams at Syracuse University utilizing tools like Tableau and Excel.
- Developed **Langchain GPT-4** chat model to evaluate student forums, analyzing sentiments and reviews to drive improvements in events, resulting in better event ratings.

### Prompt Marketing Agency

June 2024 – August 2024

Data Science Intern, Business Intelligence Team

New York, NY

- Increased my client's LinkedIn profile engagement by over **80,000 users** by conducting sentiment 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.
- Collaborated with digital marketing teams to execute **A/B tests** for ad creatives across digital platforms (Tiktok, Instagram) achieving 30% reduction in cost-per-acquisition (CPA) while maintaining campaign performance.

### Tata Consultancy Services

September 2020 – July 2022

Business Intelligence Engineer, National Stock Exchange Analytics Team

Mumbai, India

- Managed 200 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 **PostgreSQL** to process and analyze 10 terabytes of real-time trading data daily, significantly cutting manual scripting effort and reducing reporting time to managers.
- Developed **Terraform** modules to standardize infrastructure deployment across multiple environments (testing, production) reducing configuration errors by 25% and improving deployment efficiency.
- Monitored and fine-tuned **ETL** pipelines to handle peak trading volumes, ensuring 99% up-time during high-market-activity.

## EDUCATION

### Syracuse University

August 2022 – May 2024

Master of Science, Data Science

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, MySQL, SQLite, Databricks, Snowflake, AWS Glue, Redshift, Athena, Google BigQuery

**Packages:** Numpy, Pandas, Matplotlib, Seaborn, Langchain, Airflow, Kafka, Spark, NLP, Prefect

**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](#))

## LEADERSHIP

### Social Wing (NGO)

June 2018 – June 2020

Vice President

Mumbai, India

- Led as Vice-President for an NGO called Social Wing and organized different activities associated with Community Service Programs and funded the education of 40 underprivileged children through these events.

## CERTIFICATIONS

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