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.
- Performed exploratory data analysis (EDA) using NumPy and Pandas to identify **root cause of low participation** in university events through survey data, uncovering insights that resulted in an increase of over 300 students attending events.
- Produced **40+ ad hoc reports** for various teams at Syracuse University utilizing tools such as Tableau, Excel and Latex.
- Evaluated student feedback using Langchain GPT-4o chat model to understand **sentiments and reviews** that led to improvements in events and 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 planned strategies to boost engagement.
- Developed **5 dashboards in Tableau** for various projects to track KPIs and visualize key insights on product performance, reviews, engagement 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 model to **analyze forums and social media data**, delivering real-time insights on user sentiments and emerging trends tailored to various project requirements.

Tata Consultancy Services — **September 2020 – July 2022**
Business Intelligence Engineer, National Stock Exchange Analytics Team
- 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 SQL to process and analyze **10 terabytes of real-time trading data daily**, significantly cutting manual scripting effort by 50% and reducing reporting time to managers.
- Collaborated with cross-functional teams at National Stock Exchange to implement **robust data governance frameworks**, ensuring data integrity and compliance with industry standards required for trading.
- Leveraged **Airflow** to streamline querying, cleaning and data transformations, enhancing efficiency and scalability of ELT pipelines.

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

PUBLICATION

Published research paper on data mining algorithms, with a focus on the efficiency of Top-k algorithms for Super Market Sales showcasing its superiority for scalability and resource optimization - Link

CERTIFICATIONS

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