Swapnil Deore

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PROFESSIONAL EXPERIENCE

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

- Deployed LangChain model using OpenAI enabling the university store to optimize inventory restocking, reducing stockouts
- Performed social listening to provide event managers with real-time insights on emerging trends, boosting event awareness and driving participation of over 300 students
- Maintained Service Level Agreements while strategizing business by developing 100+ ad hoc reports for different teams within the university, utilizing platforms such as Tableau, SQL and Excel
- Enhanced data cleaning and processing techniques by creating AI application which improved data quality, reliability and eliminated 98% of discrepancies and inaccuracies, which increased analysis accuracy

Prompt   **June 2024 – August 2024**
Data Science Intern

- Applied conversational analysis to social media data, generating insights that helped Fortune 500 clients improve brand awareness and optimize digital marketing strategies
- Increased Lidl CEO's linkedin profile engagement by 5,000+ users conducting sentiment analysis using Langchain and Seaborn
- Developed 5 dashboards using Tableau to keep track of KPI's and visualize key insights for various clients
- Conducted A/B testing using Python and statistical methods to evaluate the effectiveness of new product features and promotional strategies, optimizing customer acquisition and engagement
- Coordinated with sales and finance team to integrate market insights with business objectives, streamlining communication of intricate data findings to influence marketing decisions and optimize profitability

Tata Consultancy Services   **September 2020 – July 2022**
Software Engineer

- Built and optimized ETL processes to transform raw data into actionable insights, improving data quality and enabling accurate reporting across departments at National Stock Exchange
- Leveraged Python and Natural Language Processing (NLP) to analyze stock exchange data, identifying key customer pain points and delivering insights that improved client engagement and satisfaction by 20%
- Analyzed trading datasets using advanced statistical techniques, like time-series, t-test, chi-square, correlation and multivariate analysis, delivering actionable insights that optimized trading efficiency
- Collaborated with cross-functional teams to establish data governance frameworks, ensuring data integrity and compliance with industry standards, enhancing reporting accuracy and consistency

EDUCATION

Syracuse University   **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 2020**
Bachelor of Engineering, Computer Engineering
Relevant Coursework: Data Science, Data Mining, Machine Learning, Database Management System, Business Analytics, Python

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, NoSQL, HTML, CSS, C
Libraries: Numpy, Pandas, Matplotlib, Seaborn, Ggplot2, Dplyr, Tidyverse, Shiny, Langchain, NLTK, spaCy, Pivot tables
Data Tools: MySQL, PostgreSQL, Alteryx, Power BI, Tableau, Looker, Gephi, Snowflake, Excel, VBA, Talkwalker, Databricks, AWS
Other Skills: Git, GenAI, Statistical Analysis, Quantitative Analysis, Hypothesis Testing, A/B Testing, Qualitative Analysis

PROJECTS

PDF Bot: Your Interactive Document Assistant - Project Link   **March 2024**

- Deployed an end-to-end application using LangChain, OpenAI, and Streamlit to automate information summarization from multiple PDFs, achieving a 95% productivity boost across workflows

Analysis of Data Science Jobs Postings - Project Link   **November 2023**

- Developed a Tableau dashboard analyzing the Fall 2023 data science job market by web scraping LinkedIn postings using Python
- Revealed that 65% of available jobs are full-time, with a peak in postings during October month