Swapnil C. Banduke

Texas, USA | Linkedin | Github | Portfolio | swapnil.banduke@utdallas.edu | +1 (469)-427-1328

EDUCATION

University of Texas at Dallas, Master of Science, Business Analytics **May 2025**

Coursework: Predictive & Prescriptive Analysis, BA with R, Advanced Statistics, Python GPA 3.9/4.0

Government College of Engineering, Karad, India **Jun 2021**

Bachelor of Technology, Electrical Engineering GPA 3.6/4.0

TECHNICAL SKILLS

Programming Languages: SQL (Data Analysis, Query Optimization), Python (Pandas, NumPy, SciPy, Matplotlib for Data Manipulation and Visualization), R (Statistical Computing)

Databases: MS SQL Server, MySQL, Oracle, PostgreSQL

Data Analytics & Visualization Tools: Tableau (Interactive Dashboards, Data Insights), Power BI (Data Reporting, Visualization), R Studio, Advanced MS Excel (Macros, Pivot Tables, VLOOKUP, Conditional Formatting, VBA Automation), MS Office (Data Aggregation, Spreadsheet Modeling), Snowflake (Data sharing, Data warehousing)

WORK EXPERIENCE

Eversana, Kansas | Applied Insight Intern **Jun 2024 - Present**

- Improved database efficiency in **Snowflake** by optimizing SQL queries through techniques like query rewriting, indexing, and query plan analysis, resulting in a 35% reduction in query execution time
- Designed a **Tableau** dashboard to visualize and track promotional campaign metrics, integrated with Salesforce Einstein, optimizing marketing strategies and improving effectiveness by 25%
- Developed and implemented ETL pipelines to scrape affinity data from various documents and websites, integrating it into Snowflake and reducing manual processing effort by 30%
- Developed a proprietary **Generative AI** tool utilizing a RAG model to perform text mining on weekly magazine reports, leveraging HuggingFace and LLM, resulting in a 40% increase in efficiency for extracting industry-relevant information and providing accurate source citations

Kirloskar Brothers Limited, Pune, India **|** Data Analyst **July 2021 - Aug 2023**

- Conducted comprehensive root cause analysis by analyzing production plant data, utilizing **Python** and **SQL**, to identify and evaluate key performance indicators (KPIs) like production yield, and project deliverables, resulting in an average 15% reduction in manufacturing costs
- Developed custom **Power BI** dashboards and reports using SQL to visualize key performance indicators (KPIs), delivering actionable insights to stakeholders and improving project deliverable efficiency by 10%
- Implemented data cleaning and preprocessing techniques with help of SQL for in-depth analysis of maintenance department data, significantly enhancing operational efficiency and achieving a 95% reduction in unforeseen machine downtime, contributing to **$47,000** annual cost savings
- Developed periodic reports by cleaning and preprocessing operational data using Python, saving the senior management team approximately 3 days per month by delivering actionable insights and trends

ACADEMIC PROJECTS EXPERIENCE:

Customer Churn Analysis (Github) | Python, Scikit-learn, Pandas, Matplotlib **Apr 2024 - Dec 2024**

- Optimized Random Forest machine learning model for churn prediction, achieving a 94% prediction accuracy
- Implemented data-driven strategies that reduced churn by 3% by addressing the primary causes and enhancing retention efforts
- Analyzed customer behavior data and visualized key trends, leading to a 15% improvement in targeted retention strategies

British Airways Customer Feedback Analysis (Github) | Python, Power BI, MS- Excel **Sept 2023 - Jan 2024**

- Scraped and structured over 10,000 customer reviews from the British Airways website, improving data collection efficiency by 40%
- Conducted in-depth analysis of customer feedback, revealing that 30% of negative feedback was related to flight delays and 25% to in-flight service dissatisfaction
- Developed comprehensive reports and visualizations that identified key customer segments for targeted marketing, contributing to a projected 10% boost in revenue based on improved customer retention strategies