

# Shakil Ahammed

## Data Analyst

### Summary

I am experienced in collecting, cleaning, and analyzing large datasets using modern tools. I have over 2 years of expertise in extracting meaningful insight and have made valuable contributions to developing reports and dashboards for visualizing key performance indicators. I am also proficient in data analysis and visualization, enabling effective uncovering of patterns and trends to drive informed decision-making processes.

### Education

Bachelor of Science: Computer Science and Engineering *Jan 2020-Present*  
Shahjalal University of Science and Technology, Sylhet, Bangladesh

### Certifications

Issuing Organization: **IBM Cognitive Class**

- Data Analysis with Python
- Machine Learning with Python
- R for Data Science
- SQL and Relational Databases
- Data Visualization with R
- Data Visualization with Python

### Experience

**Data Analyst - Research Assistant at SUST** *July 2023-Present*

- I conducted data analysis using **R and Python** on 100+ datasets and over 1000 tree samples related to tree growth, biomass, health, and biodiversity, contributing to a comprehensive understanding of forest ecosystems.
- Developed predictive models with an accuracy rate exceeding 70% to assess the impact of climate change on tree species distribution, significantly contributing to conservation efforts.

### Projects

**Superstore Sales Analysis by Python:** The goal of this project is to analyze the data and identify insights that can help the company improve its business performance. I conduct **5 hypothesis tests** for this project.

- Product Focus: Identified technology products(\$6,637,78) as the most profitable category; endorsed development and promotion to enhance profit margins.
- Regional Analysis: Proposed targeted marketing strategies to further capitalize on the central region, the highest performer at \$3 million.
- Seasonal Sales Strategy: Implemented same-day shipping options, resulting in lower return rates (\$23.91).
- Recommended maximizing sales during peak months (November and December) through enhanced inventory(\$1.4m+), targeted campaigns, etc.

**Breast Cancer Prediction by Machine Learning:** I analyzed breast cancer data using a logistic regression model, and the results are surprising because the model accuracy is **98%**.

My trained model can be used for analyzing individual hospital cells, integrated into a doctor-facing application for making predictions, and potentially linked to a tissue analysis machine for automated diagnosis. By leveraging Python's minimalist API, this approach has the potential to save lives significantly.

**Credit Card Financial Dashboard Using Power BI:** I created an Interactive dashboard utilizing transaction and customer data from an SQL database to deliver real-time insights. Streamlined data processing & analysis to monitor key performance metrics and trends. Shared actionable insights with stakeholders based on dashboard findings to support decision-making processes.

### Contact

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### Skills

- Python
- R
- Machine Learning
- SQL
- Power BI
- Excel
- MySQL
- PostgreSQL
- Data Visualization
- Statistical Analysis
- Analytical Thinking
- Problem-Solving
- Adaptability

### Portfolio

Github:

[github.com/SHAKIL-The-Analyst](https://github.com/SHAKIL-The-Analyst)

Google Drive:

[drive.google.com/drive](https://drive.google.com/drive)

### Language

- English
- Bengali
- Hindi

**Week-over-week change:**

- Revenue increased by 28.8%.

**Overview YTD:**

- Overall revenue is 57M.
- Total interest is 8M.
- The total transaction amount is 46M.
- Male customers are contributing more to revenue at \$31M, while females contribute \$26M.
- Blue & Silver credit cards contribute to 93% of overall transactions.
- TX, NY & CA are contributing to 68%.
- Overall Activation rate is 57.5%.
- Overall Delinquent rate is 6.06%.

**Coca-cola Sales Analysis Using Excel:** Specifically, the project aims to examine sales trends by beverage brand and retailer, as well as to assess sales and operating profit margin by quarter across all regions for the years 2022 and 2023.

- Coca-Cola brand products significantly contributed to sales, with \$2,268,975 in revenue, showcasing the brand's strong market presence and consumer.
- Total sales in Quarter 3 reached \$2,700,000, indicating robust market demand and effective sales strategies during this period.
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- Fizzyco retailer company emerged as a significant contributor, generating sales of \$2,101,617, highlighting effective partnerships and distribution channels.

**Walmart Sales Analysis by SQL:**

- Developed SQL queries to extract and manipulate data from the Walmart database.
- Conducted data cleaning and preprocessing to ensure data integrity.
- Present findings to stakeholders, leading up to a 10% reduction in excess inventory.