# Summary

Shakil Ahammed

**Data Analyst**

# Contact

I am experienced in collecting, cleaning, and analyzing large datasets using modern tools. I also possess 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.

# Work History

* Conducted statistical analysis on over 20 datasets and over 500 tree samples related to tree growth, health, and biodiversity, contributing to a comprehensive understanding of forest ecosystems.
* Gained experience using statistical software (e.g., Python, R, SQL, Excel, Power BI, etc.) for data analysis and visualization.
* 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.
* Created interactive visualizations using Power BI, Python, and R to present findings to the research supervisor and forest officials, enhancing communication of research results.

# Education

Bach[elor of Science: Forestry](https://courses.cognitiveclass.ai/certificates/06c85c30a31b48bfb51860c1bea63bae) and Environmental Science

*Shahjalal University of Science and Technology Sylhet, Bangladesh*

# Certifications From IBM Cognitive Class

**Address**

Pabna 6220, Bangladesh

**Phone**

+8801863548222

+8801521753358

**E-mail**

[analystshakil@gmail.com](mailto:analystshakil@gmail.com)

[**LinkedIn**](mailto:analystshakil@gmail.com)

[linkedin.com/shakil-ahammed](http://www.linkedin.com/in/shakil-ahammed-1576182a1)

# [Skills](http://www.linkedin.com/in/shakil-ahammed-1576182a1)

* **Python**
* **R**
* **Machine Learning**
* **SQL**
* **Power BI**
* **Excel**
* **MySQL**
* **PostgreSQL**
* **Data Visualization**
* **Statistical Analysis**
* **Analytical Thinking**
* **Problem Solving**
* [Data Analysis with Python](https://courses.cognitiveclass.ai/certificates/06c85c30a31b48bfb51860c1bea63bae)
* [Machine Learning with Python](https://courses.cognitiveclass.ai/certificates/1ec4123200804a76b15e86508c7ae4e8)
* [R for Data Science](https://courses.cognitiveclass.ai/certificates/b01bd227ee2c45caad6162964ee236ee)

# Projects

* [SQL and Relational Databases](https://courses.cognitiveclass.ai/certificates/9c1ccb78c15347509059cdd465526b36)
* [Data Visualization with R](https://courses.cognitiveclass.ai/certificates/ab6c8ccaf4f540d1bed62d1457ce1bc3)
* [Data Visualization with Python](https://courses.cognitiveclass.ai/certificates/f0a4a73c10954007af73b1f07f8c825d)
* **Adaptability**

# Portfolio

*Github:*

[*github.com/SHAKIL-The-Analyst*](https://github.com/SHAKIL-The-Analyst/All-Projects.git)

*Google Drive:* [*drive.google.com/drive*](https://drive.google.com/drive/folders/1MZFQ9YVaML7c3kxDB5P3YU0xpguALp8E?usp=sharing)

# Language

**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. Insights:

• Product Focus: Identified technology products as the most profitable category; recommended development and promotion to enhance profit margins.

• Regional Analysis: Analyzed sales data revealing the East region as the highest performer; proposed targeted marketing strategies to further capitalize on this region.

• Seasonal Sales Strategy: Implemented same day shipping options, resulting in lower return rates and increased weekday profits. Recommended maximizing sales during peak months

* + English
  + Bengali
  + Hindi

(November and December) through increased inventory, targeted campaigns, and promotional offers.

• Portfolio Optimization: Suggested reducing lower-margin products to streamline the product portfolio and enhance overall profitability.

• Central Region Targeting: Proposed increased focus on the central region, with evaluations of other regions to identify growth opportunities.

• Year-Round Sales Maintenance: Introduced strategies for maintaining sales during off-peak months, including the launch of new products and ongoing promotions or discounts.

• Logistics Improvement: Advocated for more same-day shipping options by optimizing inventory management and supply chain processes.

• Weekend Promotions: Developed targeted weekend-only promotions and special events to attract weekend shoppers.

• Recommended focusing on popular product categories among weekend shoppers, such as home entertainment and outdoor products.

**Breast Cancer Prediction Machine Learning Project Using Logistic Regression:** We have analyzed breast cancer data using a logistic regression model, and the results are promising.

The 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.

**Vrinda Store Sales Analysis Using Excel:** This project aims to analyze the data and uncover insights that can assist the company in enhancing its business performance. Findings:

* Sales and Orders: March recorded the highest sales, while November had the lowest.
* Gender: Women placed 64.05% of orders, exceeding men's 35.95%.
* Order Status: Most orders were delivered, followed by returns, cancellations, and refunds.
* Top Ordering States: Maharashtra had the highest orders, followed by Karnataka and Uttar Pradesh.
* Channels: Amazon had the highest order count, followed by Myntra and Flipkart.
* Age Group: Women dominated orders across all age groups.
* Channel Distribution: Amazon consistently led in order percentage, followed by Myntra and Flipkart.

**Recommendation:**

* Improve customer satisfaction in top-ordering states and target female customers due to their higher order placement.
* Allocate resources based on channel contributions.
* Promote innovation, provide training, and encourage data-driven decision-making.

**Credit Card Financial Dashboard Using Power BI:** I created an interactive dashboard by pulling transaction and customer data from an SQL database into Power BI. This allowed for real-time insights.

I also improved the data processing and analysis to keep track of important performance metrics and trends. Additionally, I shared actionable insights with stakeholders based on the dashboard findings to help with decision-making.

**Northwind Traders Sales Analysis by SQL:** Analyze and interpret the sales data of Northwind Traders. The project uses SQL to query and manage large datasets, providing a comprehensive view of sales patterns, customer behavior, and inventory management.

The analysis aims to identify key trends, performance metrics, and potential areas for optimization.