Shakil Ahammed

Data Analyst

Summary

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

Bachelor of Science: Forestry and Environmental Science
Shahjalal University of Science and Technology Sylhet, Bangladesh

Certifications From 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

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. 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

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

Google Drive:
drive.google.com/drive

Language

• 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.