Mohammad Sakibul Islam

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Education

- **Master of Data Science (MDS) | University of Guelph, ON, Canada** September 2023 – August 2024
  Completed Coursework: Statistical Learning, Data Manipulation and Visualization, Analysis of Big Data, Machine Learning, Neural Networks, Analysis of Spatial Temporal Data | **GPA:** 91.33
- **Bachelor of Science in Computer Science & Engineering (CSE) | Bangladesh University of Engineering & Technology (BUET), Bangladesh** February 2017 – May 2022

Work Experience

Data Analyst (Contract Project) | Sollio Agriculture, Canada October 2024 – November 2024

- Developed a user-friendly Excel dashboard with advanced VBA functionality, enabling users to search and retrieve product data by multiple criteria and adjust product-specific values with automatic updates across the dataset.
- Collaborated closely with stakeholders to discuss requirements and gather feedback, ensuring the dashboard design aligned with business needs and enhanced user experience.

Data Analyst Intern: Institutional Research & Planning(IRP) | University of Guelph, Canada
May 2024 – August 2024

- Implemented time-series forecasting model to predict undergraduate enrollment for the next five years across various academic terms, optimizing predictions for institutional planning.
- Automated the forecasting process using Tableau Prep to evaluate the impact of diverse intake scenarios for domestic and international students.
- Designed an interactive Tableau dashboard to display enrollment predictions, providing insights for informed decision-making and strategic planning.

Graduate Teaching Assistant | University of Guelph, Canada September 2023 – April 2024

- Graded assignments and exams with precision, offering detailed feedback to enhance student performance.
- Conducted office hours to address student inquiries and proctored exams to maintain academic integrity.

Software Developer | IQVIA, Bangladesh September 2022 – August 2023

- Developed and implemented new features in .NET Core microservice applications while working closely with team members to ensure alignment with task requirements.
- Conducted code reviews, resolved defects efficiently, and implemented BDD (Behavior-Driven Development) tests to enhance code quality and ensure reliable system performance.
- Actively participated in daily Scrum meetings, sprint planning, and retrospectives, collaborating with team members to align on tasks, address challenges, and improve development processes.(Recomendation Letter)

Skills

- **Data Analysis & Visualization:** Advanced proficiency in Power BI, Tableau, Excel (VBA, Power Query) and Google Looker Studio for creating interactive dashboards and actionable reports.
- **Programming:** Skilled in Python (Pandas, NumPy), R, and SQL for data cleaning, analysis, and predictive modeling.
- **Database Management:** Expertise in SQL for data extraction, querying, manipulation, and optimization; experienced with relational databases including MySQL, PostgreSQL, and SQL Server.
- **Automation:** Proficient in designing automated workflows for data reporting and analysis using Excel VBA.
- **Statistical Analysis:** Expertise in statistical modeling, including regression analysis, time-series forecasting, and hypothesis testing to support analytical insights.
- **ETL (Extract, Transform, Load):** Skilled in optimizing ETL workflows for efficient data processing and integration.
- **Machine Learning:** Experienced in applying regression, classification, and clustering techniques to develop predictive models.
- **Data Storytelling:** Strong ability to communicate insights through dashboard visualizations and presentations for both technical and non-technical audiences.

Certifications

- **Microsoft Certified: Power BI Data Analyst Associate (PL-300)** Issued: November 18, 2024
- **Microsoft Power BI Data Analyst Professional Certificate** Issued: November 6, 2024

Projects

Data Analysis Project: Regional and Temporal Analysis of Product Sales and Profitability

- Developed an interactive Power BI dashboard to evaluate sales performance and profitability by analyzing product sales data over time and across regions.
- Performed comparative and segmentation analysis to evaluate year-over-year growth, monthly performance, and regional contributions to support strategic planning.

Superstore Sales Analytics Dashboard in Excel for Product Insights, and Customer Segmentation

- Designed an interactive Excel dashboard to analyze sales trends, customer segmentation, product analytics, and geographic insights with time-based analysis for seasonal trends.
- Implemented VBA macros with event-driven programming to automate data updates, dynamic filtering, and report generation.

Analysis of Big Data Project: Exploratory Data Analysis using PySpark

- Conducted Exploratory Data Analysis (EDA) on large-scale US Census data (2015-2017) using PySpark, focusing on demographic trends such as ethnic composition and gender distribution through data visualization techniques.
- Analyzed socioeconomic factors including poverty rates, employment patterns, income disparities, and commute behaviors across states to identify temporal trends and actionable insights.

Data Visualization Project: Customer Shopping Trends Dashboard

- Designed an interactive dashboard in Google Looker Studio to analyze customer purchasing patterns across product categories, regions, and demographics.
- Visualized trends in seasonal behavior, promotions, payment methods, and shipping preferences to support data-driven decision-making.

Analysis of Spatial Temporal Data Project: Healthcare Accessibility Analysis

- Conducted spatial analysis using clustering, kernel density estimation (KDE), and Inverse Distance Weighting (IDW) to identify underserved areas and optimize new healthcare facility locations in Toronto.
- Applied road network analysis with Dijkstra's algorithm to determine shortest routes to healthcare facilities.

Machine Learning Project: Movie Insights Analysis

- Developed a content-based movie recommendation system using natural language processing (NLP) to analyze and compare textual data for personalized film suggestions.
- Implemented multilabel genre classification and predicted movie ratings by applying machine learning techniques and analyzing features like genre, budget, and revenue.

Statistical Learning Project: Diabetes Risk Analysis

- Developed predictive models for diabetes diagnosis using logistic regression, decision trees, and ensemble methods in R, leveraging the Pima Indian Diabetes dataset.
- Conducted exploratory data analysis to identify key risk factors and provided actionable insights.