ARKA BARUA

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OBJECTIVE

As a recent Computer Science and Engineering graduate seeking opportunities as a Data Analyst and Machine Learning Intern, I bring a solid foundation in programming languages and a keen interest in data analysis and machine learning. Proficient in Python, Pandas, Matplotlib, Seaborn, Plotly, Scikit-learn, SQL, MS Excel, Microsoft Power BI and eager to apply my skills in real-world projects.

EDUCATION

North South University   **2017-2023**

Bachelor of Science in Computer Science & Engineering

- **CGPA** – 3.22/4.00
- **Trail** – Artificial Intelligence and Networks
- **Coursework** – Design and Analysis of Algorithms, Database Systems, Machine Learning, Pattern Recognition**.**

Chittagong Government Model School & College   **2016**

Higher School Certificate

- **GPA** – 3.93/5.00
- **Group** – Science

Chittagong Government High School   **2014**

Secondary School Certificate

- **GPA** – 5.00/5.00
- **Group** – Science

CERTIFICATES AND COURSES

Complete Guide to Power BI for Data Analysts by Microsoft Press   **November 2024**

(Issued By LinkedIn Learning)

https://shorturl.at/kzc2N

SQL (Basic) Certificate   **July 2024**

(Issued By HackerRank)

www.hackerrank.com/certificates/e5fc650fe728

Machine Learning A-Z: AI, Python & R + ChatGPT Prize [2024]   **May 2024**

(Issued By Udemy)

www.udemy.com/certificate/UC-973b796e-f7bf-4729-9ca6-3e96d4301eac

SKILLS AND ABILITIES

Languages – C, C++, Python, PHP, HTML, CSS, SQL, JavaScript

Libraries – Pandas, Scikit-learn, Matplotlib, Plotly, React, Tailwind CSS

Software – Visual Studio Code, Microsoft Power BI, MS Excel, Microsoft SQL Server, PostgreSQL

PROJECTS

Shipping and Logistics Data Analysis Report Using Power BI   **October 2024**

github.com/ArkaBarua173/Shipping-and-Logistics-Analysis

- This project utilizes Power BI to visualize shipping and logistics data, focusing on KPIs like shipment value, freight cost per KG, and on-time delivery rate.
- It provides insights into freight efficiency by analyzing shipment modes and comparing shipment value and freight cost by product group.
- The report supports strategic decision-making with detailed tables on sub-classification insights and country-specific metrics, optimizing logistics and operational efficiency.

Financial Performance Report with Detailed KPI Breakdowns   **September 2024**

github.com/ArkaBarua173/Financial-Performance-Report

- This financial performance report presents essential metrics, including Revenue, Gross Profit, Expenses, and Net Income, offering a clear view of overall financial health.
- Provides detailed KPI breakdowns, analyzing trends by division and account type, and comparing year-over-year performance for strategic insights.
- Utilizes interactive Power BI features for easy data exploration, enabling users to view financial data by division, region, and other relevant dimensions.

Abalone Age Regression with Ensemble Method   **April 2024**

github.com/ArkaBarua173/Abalone-Age-Regression

- This project aims to predict the ages of abalone.
- XGBRegressor, CatBoostRegressor, LGBMRegressor and Voting Regressor are trained.
- The primary evaluation metric used is Root Mean Squared Logarithmic Error.

Binary Classification with an Imbalanced Dataset   **February 2024**

github.com/ArkaBarua173/Bank-churn-classification

- This project aims to predict the probabilities of customers exiting the bank.
- XGBoost is used to address the imbalance by increasing the weights of the minority class.
- The model was evaluated using accuracy, precision, F1 score, recall, and AUC-ROC score.

REFERENCES

Sumoy Barua
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Associate Professor, North South University

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