

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	
<ul style="list-style-type: none">• 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	
<ul style="list-style-type: none">• GPA – 3.93/5.00• Group – Science	
Chittagong Government High School	2014
Secondary School Certificate	
<ul style="list-style-type: none">• 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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Dr. Mahdy Rahman Chowdhury

Associate Professor, North South University

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