Arka Barua

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Ø arkabarua173.github.io/ark

in Arka Barua

ArkaBarua173

Summary _____

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, Tableau, PowerBI and eager to apply my skills in real-world projects.

Education

BSC North South University, Computer Science & Engineering

2017-2023

- CGPA: 3.22/4.0
- Trail: Artificial Intelligence and Networks
- **Coursework:** Design and Analysis of Algorithms, Database Systems, Machine Learning, Pattern Recognition.

Certificates & Courses _____

SQL (Basic) Certificate

July. 2024

(Issued By HackerRank)

www.hackerrank.com/certificates/e5fc650fe728 2

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

May. 2024

May. 2024

(Issued By Udemy)

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

Advanced SOL

(Issued By Kaggle)

www.kaggle.com/learn/certification/arkabarua173/advanced-sql

Skills _____

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

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

Software: Visual Studio Code, Tableau, PowerBI, MS Excel, Microsoft SQL Server, PostgreSQL

Projects _____

Interactive Sales Dashboard for an E-commerce Platform 🤤 🔗

July 2024

- In this project, I visualized key e-commerce insights using Tableau to drive data-driven decisions.
- The dashboard includes KPIs, sales by category, payment distribution, regional sales, and city breakdowns.
- Tools Used: Tableau.

Bike Sales Performance Analysis with SQL and Power BI | | | |



- This project leverages SQL and Power BI to analyze and visualize bike sales data.
- It focuses on key metrics such as order status distribution, average processing times, and sales trends over time.
- The analysis provides insights into customer purchasing behavior, product performance, and inventory management, helping to optimize sales strategies and operational efficiency.
- Tools Used: Python, PostgreSQL, DAX, PowerBI.

Abalone Age Regression with Ensemble Method 😯 k

April 2024

June. 2024

- This project aims to predict the ages of abalone.
- XGBRegressor, CatBoostRegressor and LGBMRegressor are trained.
- A Voting Regressor (XGBRegressor + CatBoostRegressor + LGBMRegressor) with soft voting is trained as the final model.
- The primary evaluation metric used is Root Mean Squared Logarithmic Error.
- **Tools Used:** Python, Pandas, Matplotlib, Seaborn, Scikit-learn, XGBoost, CatBoost, LightGBM.

Binary Classification with an Imbalanced Dataset 🤤 k

Feb. 2024

- 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.
- SHAP (Shapley Additive Explanations) is used to understand the model.
- Tools Used: Python, Pandas, Plotly, Scikit-learn, XGBoost, SHAP.

References _

Sumoy Barua

Lead Software Engineer, Cefalo **Contact:** +880 1610-001914

Dr. Mahdy Rahman Chowdhury

Associate Professor, North South University

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