

Arka Barua

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

Education

BSC North South University , Computer Science & Engineering	2017-2023
<ul style="list-style-type: none">• CGPA: 3.22/4.0• Trail: Artificial Intelligence and Networks• Coursework: Design and Analysis of Algorithms, Database Systems, Machine Learning, Pattern Recognition.	
HSC Chittagong Govt. Model School & College , Science	2016
<ul style="list-style-type: none">• GPA: 3.93/5.0	
SSC Chittagong Govt. High School , Science	2014
<ul style="list-style-type: none">• GPA: 5.0/5.0	

Certificate Courses

Machine Learning A-Z: AI, Python & R + ChatGPT Prize [2024] (Issued By Udemy) www.udemy.com/certificate/UC-973b796e-f7bf-4729-9ca6-3e96d4301eac	May. 2024
Advanced SQL (Issued By Kaggle) www.kaggle.com/learn/certification/arkabarua173/advanced-sql	May. 2024

Skills

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

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

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

Projects

Bike Sales Performance Analysis with SQL and Power BI	May. 2024
<ul style="list-style-type: none">• 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, SQL, PostgreSQL, PowerQuery, PowerBI.	

Abalone Age Regression with Ensemble Method |k

April 2024

- This project aims to predict the age 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.

Vehicle Sales Analysis |k

April 2024

- This project investigates key insights such as average selling prices across car brands and models, comparison of automatic and manual transmission cars, examination of color distribution's impact on prices, analysis of car condition ratings, and the effect of odometer readings on selling prices.
- **Tools Used:** Python, Pandas, PowerBI.

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

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Associate Professor, North South University

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