RUHIT SHAH

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Technical Skills

- **Languages:** C/C++, SQL, Python, MATLAB, HTML, CSS
- **Data Science Tools:** Numpy, Pandas, Matplotlib
- **Data Analysis and Visualization Tools:** Power BI, Tableau, Matplotlib, Seaborn, Excel
- **Machine Learning Libraries:** TensorFlow, Scikit-learn, Keras, Pytorch, NLTK
- **Databases:** MongoDB, MySQL
- **Tools & Platforms:** Git, GitHub, Docker

Projects

1. NBA Data Analysis

- Performed advanced data analysis on NBA draft history using DuckDB and Python to uncover trends in team drafts, player origins, and positional value over time.

2. Sales Insights – Brick and mortar business [Power BI — SQL]

- Designed a Power BI dashboard to understand AtliQ hardware goods sales trend.
- The final dashboard was effective at displaying the sales trend of AtliQ hardware, allowing users to understand the data and make informed decisions.

3. Coffee Shop Sales Data Analysis

- Conducted data analysis and visualization on coffee shop sales data to uncover customer trends and business insights.

4. Bank Customer Churn Prediction

- Predicts customer churn using Logistic Regression, Random Forest, and XGBoost with SMOTE balancing and SHAP explainability.

5. Credit Card Fraud Detection

- Detects fraudulent transactions via Isolation Forest and XGBoost on imbalanced data with SMOTE and AUC-ROC evaluation.

6. SMS Spam Detection

- Classifies SMS as spam or ham using TF-IDF vectorization, PCA dimensionality reduction, and Naive Bayes/Logistic Regression.

Work Experience

AI Engineer(Intern)   December 2024 - May 2025
Centre for Data Science Research(CDSR)

Publication

- Patch Antenna Design and Optimization Using Machine Learning Techniques (**Link**)

Education

Patuakhali Science and Technology University   January 2019 - December 2024
B.Sc. in Computer Science and Engineering   *GPA: 3.476/4.0*

- Relevant Coursework: Machine Learning, Artificial Intelligence, Algorithm Engineering, Data Warehousing and Mining, Data Structures & Algorithms, Operating Systems, Database Management, Computer Networks, Software Engineering, Web Development

Honours and Awards

- Dean's Merit List – Faculty of Computer Science and Engineering, Patuakhali Science and Technology University
- 24th Position in MIST LeetCon HackMeIfYouCan 2023 – Military Institute of Science and Technology

Volunteer and Leadership Roles

Vice President   January 2024 - December 2024
CSE Club   *PSTU*