RATUL SUR

Kolkata, India   +91 9831635030   Email Portfolio LinkedIn

SUMMARY

Aspiring data analyst with a background in Computer Science and Business Systems, skilled in data analysis and have a strong foundational knowledge of computer science and business analysis.

PROJECTS

Sales Insights
Tech Stack used - Tableau, MySQL

• Extracted data from various sources, gained insights using **MySQL** and loaded it into **Tableau for visualization**.

• Developed a data model in **Tableau** to **represent relationships between data entities** and applied **data cleaning techniques** to ensure accuracy and reliability.

• Created interactive **revenue** and **profit analysis dashboards** using **Tableau**, providing insights into key performance indicators and supporting data driven decision making.

Innovative Data Analytics for Excellence : A Machine Learning Based ODI Bowler Ranking System
Tech Stack used - Python, Sci-kit Learn, Numpy, Pandas, Matplotlib,

• To identify the most suitable Machine Learning algorithm to replicate the nature of ICC's ranking algorithm to rank ODI bowlers.

• Employed **Ridge Regression**, **Lasso Regression**, **ElasticNet Regression**, **Random Forest Regression** and **Artificial Neural Networks** to **produce rankings**.

• Achieved **75.50% accuracy** and also created different **visualizations using Matplotlib** to gain insights into the performance of top 10 bowlers.

NLP based Spam Classifier
Tech Stack used - Python, NLTK, Numpy, Pandas, Seaborn,

• To classify SMS into two categories spam or legitimate by leveraging the NLP methodologies using the NLTK library.

• Employed different methodologies such as stemming, tokenization, stopword removal, text vectorization.

• Achieved 97.09 % accuracy and 1.0 precision score using Multinomial Naive Bayes classifier among many other algorithms.

SKILLS

Languages - Python, C++, SQL

Databases - MySQL

Data Analysis - MS Excel, Machine Learning, Exploratory Data Analysis(EDA), Predictive Analysis, Statistical Analysis, Data Cleaning, Data Preprocessing, ETL

Business Analysis - Business Analysis Foundations, Agile Requirement Foundations.

Data Visualization - Tableau, Matplotlib, Seaborn

Soft Skills - Leadership, Communication, Time Management, Teamwork.

VOLUNTEER EXPERIENCE

Photography and Editing Team Head
IEI Students Chapter CSBS, AOT   **August 2023 - March 2024**

• Led and managed a team of 20+ photographers and editors within SC-CSBS, a student-run body facilitating photography and videography services during events hosted by SC-CSBS.

• Curated images and videos used in event documentation and social media posts, maintaining consistency and quality across all platforms.

EDUCATION

Bachelor of Technology in Computer Science and Business Systems
Academy of Technology • Hooghly, WB • 2024 • 8.97

Senior Secondary - PCM
Lord Buddha Public School • Kota, WB • 2020 • 77.2%

CERTIFICATES AND VIRTUAL EXPERIENCES

ACCENTURE DATA ANALYTICS AND VISUALIZATION virtual experience program on **FORAGE** - July 2024
FOUNDATIONS OF BUSINESS ANALYSIS issued by **LinkedIn** (Endorsed by IIBA, PMI, NASBA) - July 2024

PUBLICATIONS

- B. Das, N. R. Das, B. Mondal, R. Sur, S. Paul, B. Das, and S. Maity, "An Empirical Study of Machine Learning Techniques for ODI Bowler Performance Evaluation", in 4th International Conference on Computer, Communication, Control & Information Technology 2024 [C3IT], IEEE, 2024. (Accepted, Presentation Due)