

Sharique Pervez

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SKILLS

Languages:	C++, Java, R, Python(Pandas, Numpy, Matplotlib, Scikit-learn, Seaborn)
Data Science & Analytics:	Machine Learning, Data Visualization, Statistical Analysis SQL(MySQL),
Tools/Platforms:	Tableau, Microsoft Excel(PivotTables, VLOOKUP)
Soft Skills:	Problem-Solving Skills, Team Player, Adaptability, Project Management

PROJECTS

- CreditCard Fraud Detection with Explainable AI(XAI): Jan'2025
Built an **XGBoost** model to catch fraudulent transactions, achieving an **89% recall score** on the minority fraud class. Addressed the problem of imbalanced data by using **SMOTE** to generate synthetic training samples, which was key to the model's success. What makes this project unique is its interpretability, I used the **SHAP** library to interpret why the model flags certain transactions, making it fully transparent.
Tech Stack: Python (Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn), XGBoost, SHAP, SMOTE, XAI.
Github Repository Link: <https://github.com/Shariquepervez/Credit-Card-Fraud-Detection-XAI>
- Spotify Song Popularity Prediction: Nov'2024
Developed a machine learning model for spotify song predictability based on their audio features. Compared different classification algorithms like **KNN, Decision Tree, Naive Bayes, and Neural Networks**. The models were evaluated using accuracy, precision, recall, and **F1-score** to determine the best approach. Achieved an Accuracy of **85%** with Neural Network model.
Tech Stack: R, Machine Learning, Data Preprocessing, Model Evaluation
Github Repository Link: <https://github.com/Shariquepervez/Spotify-Popularity-Prediction>
- FIFA World Cup DataAnalysisDashboard: Nov'2024
Designed an interactive Tableau dashboard to analyze FIFA World Cup data, showcasing team performances, goals, and tournament trends. Used calculated fields and dynamic filters to derive insights and enable interactive data exploration.
Tech Stack: Tableau
Dashboard Link: [Tableau Public](#)

SUMMER TRAINING

Board Infinity – Online Learning Platform

Jun'2024-Jul'2024

DSA using C++

Completed a hands-on training focused on learning and implementing core data structures and algorithms in C++. Practiced problem-solving with topics like arrays, linked lists, stacks, queues, trees, and graphs to strengthen logical thinking and coding efficiency.

Certificate Link: [Board Infinity](#)

CERTIFICATES

- Supervised Machine Learning | [Coursera](#) Nov'2024
- Data Analysis with Tableau | [Coursera](#) Nov'2024
- Ethical Hacking | [NPTEL](#) Oct'2024
- Generative AI | [Coursera](#) Apr'2024
- R Programming | [Coursera](#) Mar'2024

Extra-Curricular Activities & ACHIEVEMENTS

- Deloitte Australia – Data Analytics Virtual Job Simulation (Forage) Oct'2025
Completed a virtual simulation focused on data analysis and forensic technology, using Tableau and Excel to create dashboards and business insights.
- Solved 100+ problems on LeetCode

EDUCATION

- LovelyProfessional University Phagwara,Punjab
Bachelor of Technology-Computer Science and Engineering; CGPA: 8.27 Since Aug'2022
- Trident Public School Muzaffarpur,Bihar
Intermediate; Percentage: 82.8% Apr'2021 – Mar'2022
- North Point Children's School Muzaffarpur,Bihar
Matriculate; Percentage: 86.2% Apr'2019 – Mar'2020