Mridul

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ABOUT ME

Passionate data professional with expertise in Python, NumPy, Pandas, SQL, Matplotlib, and machine learning libraries like scikit-learn and XGBoost

PROJECTS

- ❖ **Binary Prediction of Poisonous Mushroom: [Project Link](#)**
  The goal of this project was to predict whether a mushroom is edible or poisonous based on its physical characteristics. After testing various machine learning algorithms, **XGBoost** proved to be the most effective, achieving an MCC of **98.3%.** This result highlights XGBoost's ability to handle complex classification tasks with high precision, making it a reliable choice for this type of predictive modeling.

- ❖ **NY CITY TAXI FARE PREDICTION: [Project Link](#)**
  The goal of this project was to predict the fare amount for a taxi ride in New York City based on Pickup and Dropoff locations. By leveraging advanced machine learning techniques like **XGBoost**, I was able to reduce the RMSE (Root Mean Squared Error) to **$3.22**, a significant improvement from the basic model's RMSE of **$7-$8**. Notably, I achieved this result using only **1%** of the dataset to enhance computational speed, further demonstrating the power and efficiency of sophisticated models in handling complex prediction tasks.

POSITION OF RESPONSIBILITY

- ❖ **TECHNOUTSAV | IEEE, ADGITM** *(Oct'23)*
  Planned and coordinated workshops and seminars on technology and innovation, enhancing tech skills for over 1200+ students.

ACHIEVEMENTS / HOBBIES

- Secured 2nd position in SQL-QUEST organized by DATATHONS-ADGITM

- SEMIFINALIST SIH 2024

- Part of DAV Rohini volleyball Zonal Team

EDUCATION

- ❖ Artificial Intelligence and data science |Akhilesh Das Gupta Institute of Technology and Management, Delhi *SGPA*: *8.6* | *(Aug'23 -July'27)*
- ❖ Data Science And Programming | Indian Institute of Technology Madras *(Distance Learning)* *CGPA*: *7.2* | *(June'23 -July'27)*
- ❖ XII (CBSE) | DAV Public School Rohini, Delhi

SKILLS

- ❖ **Python | NumPy | Pandas | Seaborn | Matplotlib**
- ❖ **Sklearn |Machine Learning**
- ❖ **SQL**