



Mridul

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ABOUT ME

Aspiring data professional skilled in Python, SQL, and machine learning, with hands-on experience in building AI-driven applications and predictive models. Passionate about leveraging data to solve real-world problems efficiently.

PROJECTS

❖ FIT-U: [Website](#) [Github](#)

Designed and implemented **FITU**, an AI-powered fitness application utilizing **OpenCV**, **Flask**, and **MediaPipe**, enabling real-time detection, tracking, and accurate counting of bicep curls through a user's camera, providing an innovative solution for personalized exercise monitoring and performance optimization.

❖ 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.

❖ 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.

POSITION OF RESPONSIBILITY

❖ TECHNOOUTSAV | 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

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 | Xgboost | CNN
- ❖ SQL | OpenCV | Flask