

SHEIKH OBAID ULLAH



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Dwarka, Delhi



<https://obaid-02.github.io/portfolio/>



<https://github.com/obaid-02?tab=repositories>

EDUCATION

B.Tech, Computer Science Engineering

Mahindra University • Hyderabad, Telangana



2021 - present

- **8.76/10** CGPA
- Completed College-level Coursework: Machine Learning

XII(CBSE)

OPG World School • Dwarka, Delhi



2020 - 2021

SCHOLARSHIP

- I was awarded a scholarship for academic excellence by Mahindra University for the academic year 2023-2024.

PROJECTS

Drone Automation, Image Processing for Drone Navigation



December 2023 - present

- Utilized YOLOv8 for training a custom model specifically designed to recognize coconut trees.
- Implementing depth camera technology to accurately determine the distance between the drone and the identified tree.
- Designing and executing algorithms to enable the drone to autonomously approach the detected tree.

Hinfo, Mobile App for House Survey



November 2023 - January 2024

- Developed "Hinfo," a mobile application using Java and XML on Android Studio.
- Designed for a consulting company for house surveys in Jammu and Kashmir.
- Implemented features to store detailed house information, including house number, plot area, house area, and owner's name.
- Integrated Firebase as the backend database for efficient data storage and retrieval.
- Seamlessly integrated NoteCam application within the "Hinfo" mobile app using Android Intents, allowing for streamlined image capture with embedded longitude and latitude coordinates for comprehensive house surveys.
- Leveraged Android development frameworks and libraries to ensure seamless user experience and efficient data management.


Cricket World Cup Prediction 2023, ML Model for Prediction



October 2023 - November 2023

- Developed "Cricket World Cup Prediction 2023," an ML model for predicting match outcomes, key metrics, and player performances during the World Cup semifinals and finals.
- Utilized Python and various libraries, including pandas, numpy, scikit-learn, and xgboost, for data manipulation, model training, and evaluation.
- Implemented a Random Forest Regressor model for predicting player's highest scores based on features such as batting average, strike rate, and previous runs.
- Employed train_test_split function from scikit-learn for splitting data into training and testing sets.
- Utilized XGBRegressor model from the XGBoost library for predictive modeling.
- Applied one-hot encoding to categorical features using the get_dummies function from pandas to prepare the data for modeling.

Prediction of Wild Blueberry Yield, ML Model for Prediction

 May 2023 - June 2023

- Developed a predictive model for Wild Blueberry Yield using the XGBoost algorithm.
- Utilized feature extraction techniques, including heatmap analysis, to identify significant predictors for yield estimation.
- Achieved a mean absolute error of 339.441, demonstrating the model's accuracy in predicting yield.
- Leveraged Python for model development, along with libraries such as xgboost for algorithm implementation and seaborn for heatmap visualization.

Social Network Analysis using NetworkX and NumPy

 April 2023 - May 2023

- Developed a social network analysis project using NetworkX and NumPy libraries in Python.
- Utilized NetworkX to construct a graph representation of a social network from a given dataset
- Extracted adjacency matrix from the graph representation and converted it into a NumPy array for further analysis.
- Visualized the social network graph using NetworkX's draw_spring function.
- Conducted various network analysis metrics, including average degree of neighbors, clustering coefficient, betweenness centrality, closeness centrality, eigenvector centrality, and PageRank.
- Used Pandas to organize the computed network metrics into a DataFrame for easy analysis and visualization.
- Employed MinMaxScaler from scikit-learn to normalize the features of the DataFrame.
- Applied DBSCAN (Density-Based Spatial Clustering of Applications with Noise) algorithm for community detection in the social network.
- Evaluated the clustering results using silhouette score and Davies-Bouldin index for cluster quality assessment.

SKILLS

Languages

- C, Python
- HTML, CSS, Java Script(Basic Level)
- MySQL
- Java, MATLAB

Operating Systems

- Windows
- Linux

Tools and Frameworks

- Machine Learning
- Numpy, Pandas, Matplotlib
- YOLO