



SUPERIOR UNIVERSITY

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PROJECT DISRUPTION

This project is a simple web-based machine learning application built using Flask. It allows users to upload a CSV file containing the Bank Marketing dataset (bank.csv) and perform a series of data analysis and machine learning tasks through a user-friendly interface. Once the dataset is uploaded, the application provides an Exploratory Data Analysis (EDA) page that displays the shape of the dataset, column names, missing values, and a graphical distribution of the target variable (deposit).

Next, users can navigate to the data cleaning section, where rows with missing values are removed and the cleaned dataset is saved for further processing. After cleaning, the user can proceed to train a machine learning model. The application uses a RandomForestClassifier to train on the processed data and then displays the model's accuracy on a test set. The app is styled with basic CSS for a clean and readable interface and uses Matplotlib and Seaborn for plotting.

Overall, this project demonstrates how to integrate data processing, visualization, and machine learning into a complete web application using Python, Flask, HTML, and CSS.