AI - APPLICATION

Technology stack

* Python
* Django
* Pandas
* Matplotlib
* Scikit-learn
* Seaborn
* AutoML (Regression & Classification ML Algorithms)
* HTML, CSS, JavaScript

Features

* A simple User interface is built for the users
* User needs to create an account and login first
* On upload page user needs to upload input data in form of CSV/Excel file.
* On next page, EDA (Exploratory Data Analysis) is done.
  + Input data analysis is done and displayed to user.
  + Description about input data is displayed to user.
  + Program recognizes and plots graphs of all categorical columns automatically.
* Next page is Data Preprocessing
  + Column names are displayed in dropdown, user needs to select the prediction column.
  + If the Data has missing values, program automatically identifies and gives user the options in form of buttons to handle the missing values.
  + User can select unwanted columns to drop from data from dropdown.
  + User can select the number of percent of data for training and rest for testing. If user selects 70% for training, 30% will go for testing
* On Next page, user selects the Regression or Classification type based on prediction column and program will automatically choose the best model with best parameters for the user.
* On Next page, Model Evaluation is done.
* User can save the model in the application.
* If model is saved, user can access and test the model in ‘Profile’ page.