Dota Winner Prediction
Documentation

Time

Data Analaysis and Exploration
- Understanding the shape of data
- Classifying the data into boolean, categorical and continious data
- Estimating the correlation matrix between the fetaures and scrutening the model.

Data Preprocessing
- managing the null values

Model Decision, tuning and fitting the model
- Deciding the training model based on the explorative data analysis
- Tuning the model based on randomized serach cv
- Fitting the data based on the best paramters estimated from search results
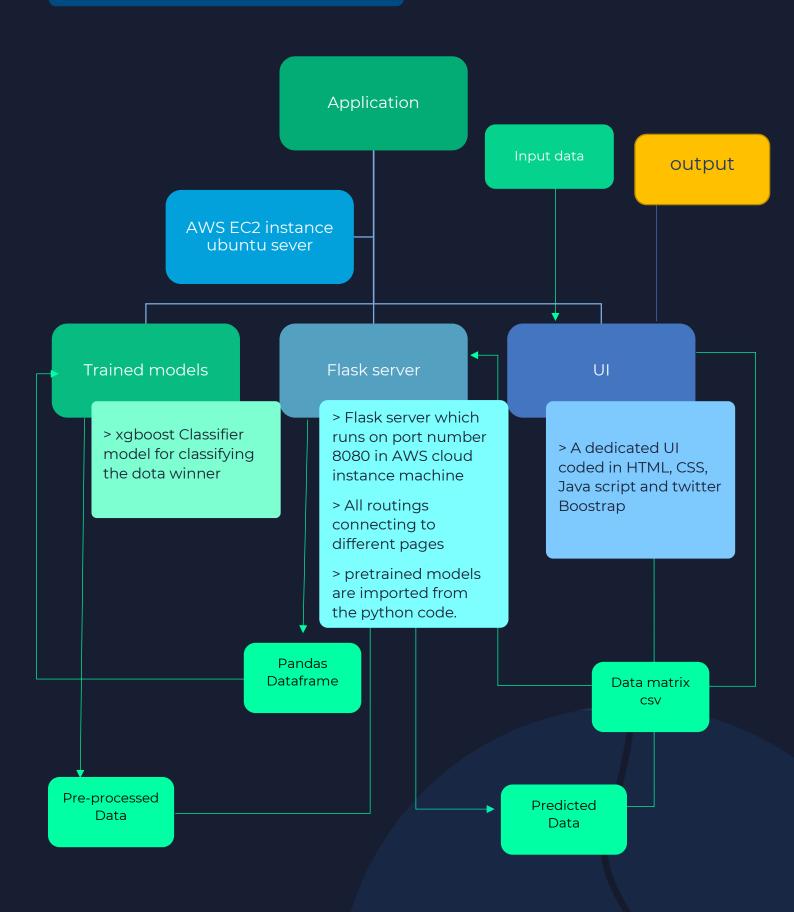
Server creaton and deployment
- Local server is created in flask enivoronment and the trained machine learning model and preprocess fucntions are integrated with the server
- Server prototype is created and exception handling is checked.

Designing UI and merged with server
- A well crafted user friendly UI is deisgned and care is taken to prompt user with appropriate response.
- Steps are taken to alert the user with pertinent in case of incompatible input data

Creation of cloud server and delpoyment
- Amazon EC2 instance is created in linux environment.
- The project is deployed in the cloud in port number 8080using SSH authentication
- And the applictaion works like a breeze

Application Structure

Application

Input data

output

AWS EC2 instance ubuntu sever

Trained models

> xgboost Classifier model for classifying the dota winner

Flask server

> Flask server which runs on port number 8080 in AWS cloud instance machine

> All routings connecting to different pages

> pretrained models are imported from the python code.

UI

> A dedicated UI coded in HTML, CSS, Java script and twitter Boostrap

Pandas Dataframe

Data matrix csv

Pre-processed Data

Predicted Data

UI Documentation

Public_url : http://ec2-3-6-92-45.ap-south-1.compute.amazonaws.com:8080/

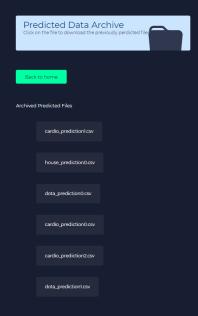Dashboard : A well binded single UI dashboard is implemented to route to respective the model prediction page.

Ineuron Hackathon(Machine Learning)
Bundle 2

Cardio Vascular

Dota prediction

House Rent prediction

Predicted archive files : One stop place for all previously predicted data, that the download will be triggered on click.

Predicted Data Archive
Click on the file to download the previously perdicted files

Back to home

Archived Predicted Files

cardio_prediction1.csv

house_prediction0.csv

dota_prediction0.csv

cardio_prediction0.csv

cardio_prediction2.csv

dota_prediction1.csv

Dota prediction page: Dedicated web page u=is designed for easy prediction of data and as form values and bulk csv.

Dota Game winner prediction
Bundle 2

Dota 2 is a popular computer game with two teams of 5 players. At the start of the game each player chooses a unique hero with different strengths and weaknesses. The Machine Learning application which predicts the winner based on the given attributes and the hero chosen by the team. Each player in a team can select one Hero that doesnt overlap.

Cluster Id

Game Mode
0

Game Type
0

Team 1 | Team 2

Player 1
1

Player 1
1

Player 2
1

Player 2
1

Player 3
1

Player 3
1

Player 4
1

Player 4
1

Player 4
1

Player 5
1

Predict | Go home

Upload bulk data as csv

Choose File No file chosen   Submit

Data description page : A guideline page to show the data attributes and the sequence at which the csv file must be arranged.

Dota game winner prediction
Bundle 2

Back to prediction

Data Description

#	Attribute	Description	Range
1	Cluster ID	cluster id	no range
2	Game mode	1 for male and 0 for female	0 or 1
3	Gmae Type	type of game palyed	0 to 3
4	Player #	hero which the player selected	1 to 113