

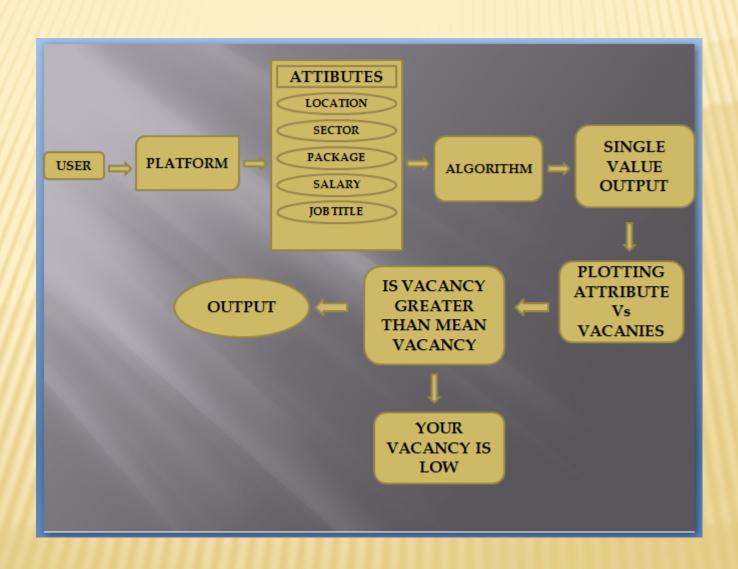
PRESENTED BY:TEAM TAKSHASHELA#111

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, LAVALE

PROBLEM STATEMENT

The objective of our team is to develop a software solution to predict the future jobs based on location, sector, package and eligibility. Big data analysis can be useful to collect and analyze the data from different job sites and predict the future requirement applying machine learning.

ARCHITECTURAL DIAGRAM



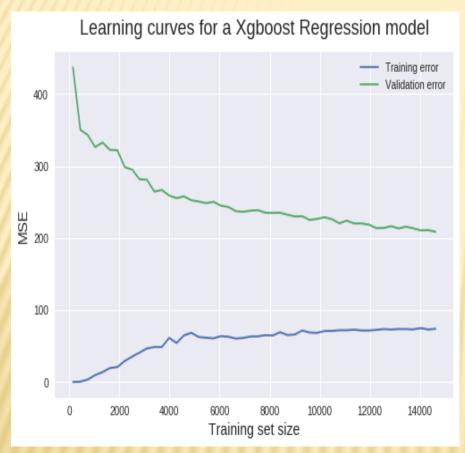
BACKEND DEVELOPMENT

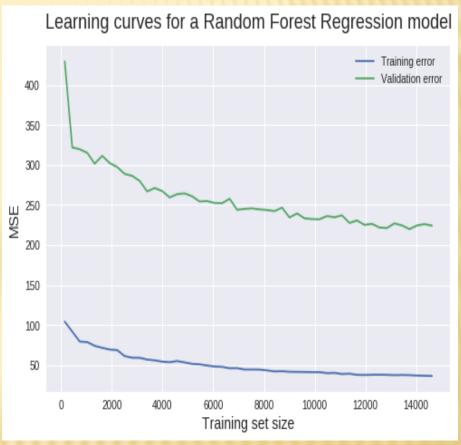
- 1. While working on the algorithms we found that the string has to convert into numeric values as ML accept better accuracy to it. So, we convert it into labels by using Label Encoding.
- 2. Since one attribute name Eligibility has having an issue with it so we can't use Label Encoding, as each data in that particular cell has to separate it, so we use Count Vectorizer technique, which segregates each cell. After that it we got better results while working with the algorithms.
- 3. We have worked on different algorithms and find out the accuracy scores and RMSE values, the table will show the outcomes: -

Sr.	ALGORITHM USED	ACCURACY SCORE	RMSE VALUES
No			
1	XGBOOST	43.18	13.83
2	KNN	34.20	14.87
3	RANDOM FOREST	43.11	13.80
4	NAVIES BAYES	6.00	29.96
5	DECISION TREE	13.30	18.47
6	LINEAR	37.30	18.00
7	LOGISTIC	42.5	19.33
8	SVM	7.60	19.03

- 4. For more classification we go to insights and checked the learning curves with gives us better knowledge about with algorithm to apply in our project.
- 5. We also plotted the graphs of the current data after training the model which other attributes which will help for the user to know for better approach.
- 6. Currently, we are working on the prediction graph which will give better idea for the future jobs in respect with vacancy and as well as we are working on the connectivity through flask what we have done till now.

LEARNING CURVES OF ALGORITHM



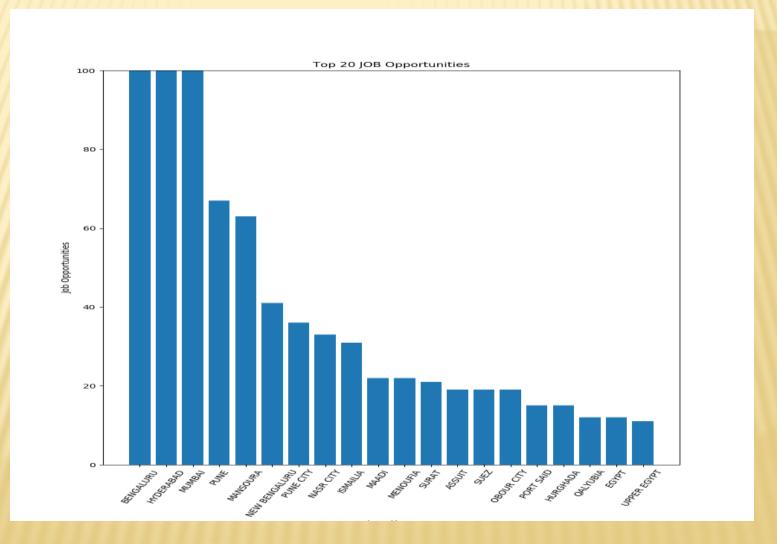


XGBoost

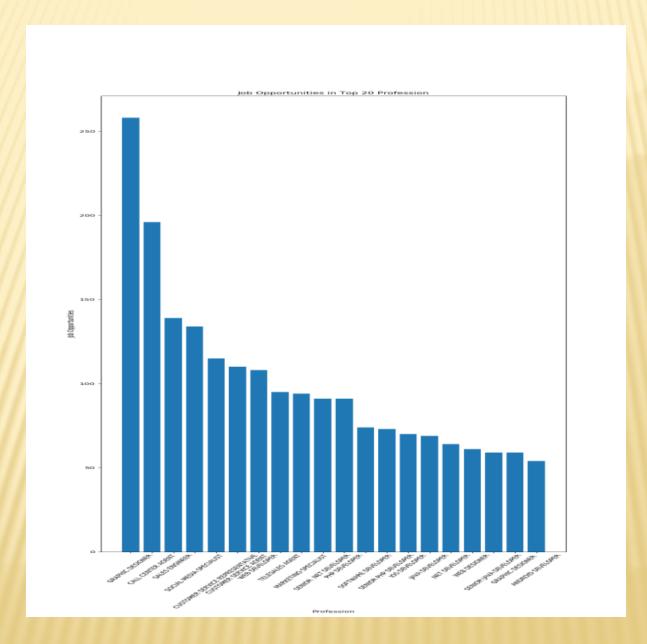
RANDOM FOREST

CURRENT DATA PLOTTING AGAINST VARIOUS ATTRIBUTES AFTER TRAINING THE MODEL

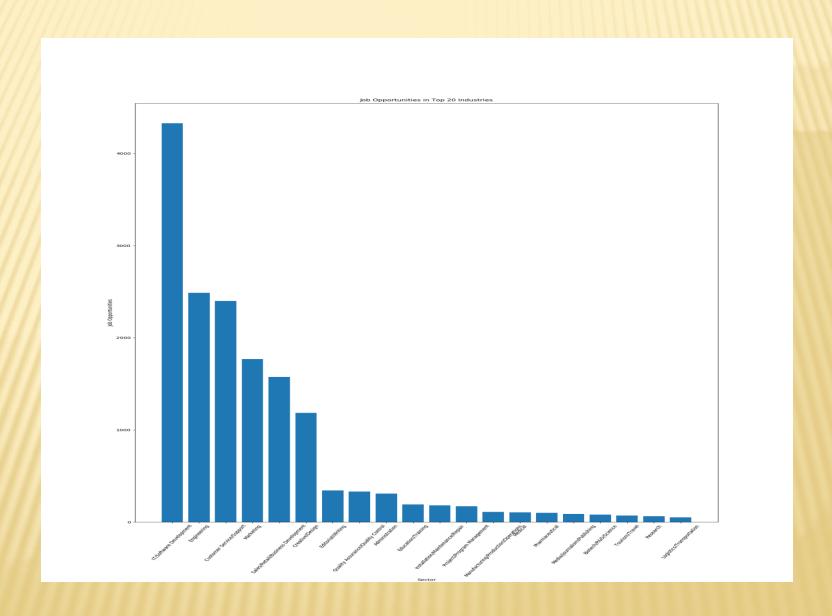
LOCATION-VACANCY

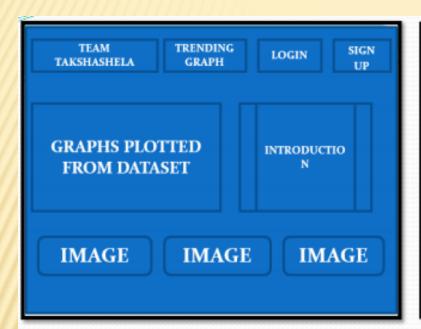


PROFESSION-VACANCY



SECTOR-VACANCY









TEAM TAKSHASHELA	HOME LOGIN OR SING OUT
GRAPH V/S	GRAPH V/S
DESCRIPTIO N GRAPH V/S	DESCRIPTIO N
IMG IMG	IMG

FRONTEND WITH FLASK

We have connected our index, signup, login and other html pages with flask framework.

In signup page all the credentials will save in MySQL database. We have use SQLAlchemy for connectivity with databases.

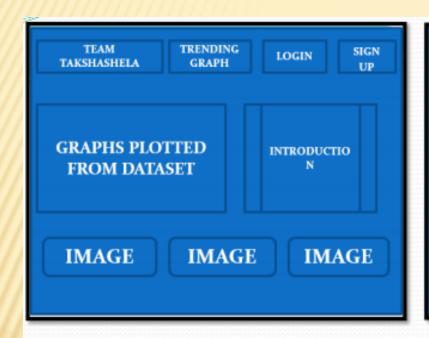
In login page credentials we fulfil all the criteria which will redirect to the main page and if not, message will be flashed with wrong credentials.

The credentials will be extracted from MySQL database to check if it is correct.

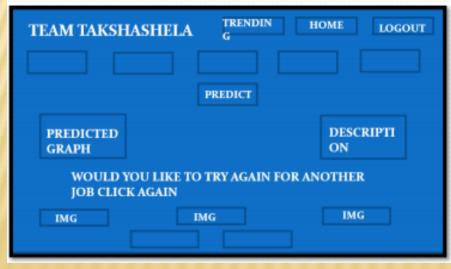
We are developing our main page which will take various inputs which will be processed with the backend connectivity.

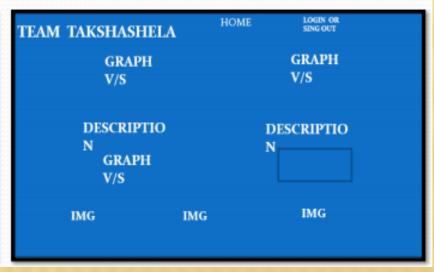
We are also working on the result page where we will show the predicted out with different functions.

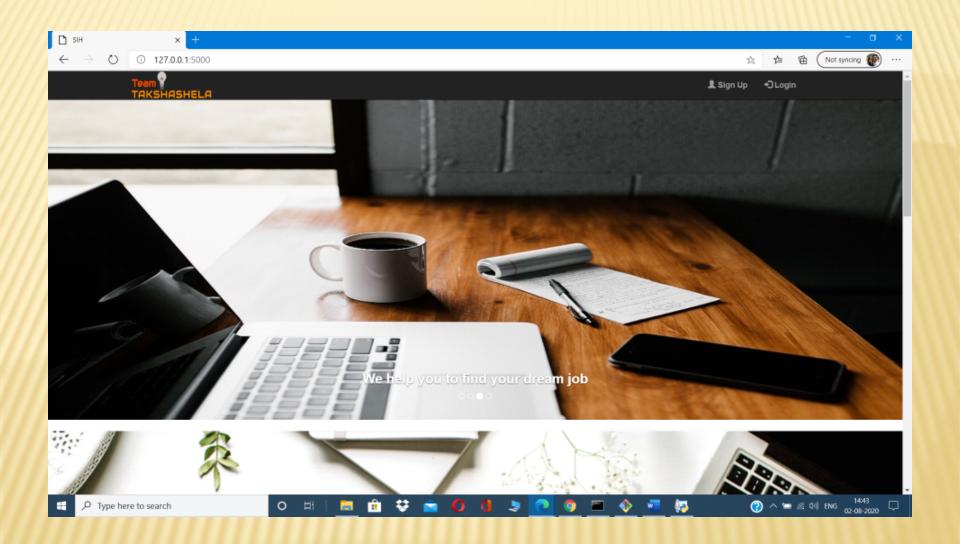
WIREFRAME

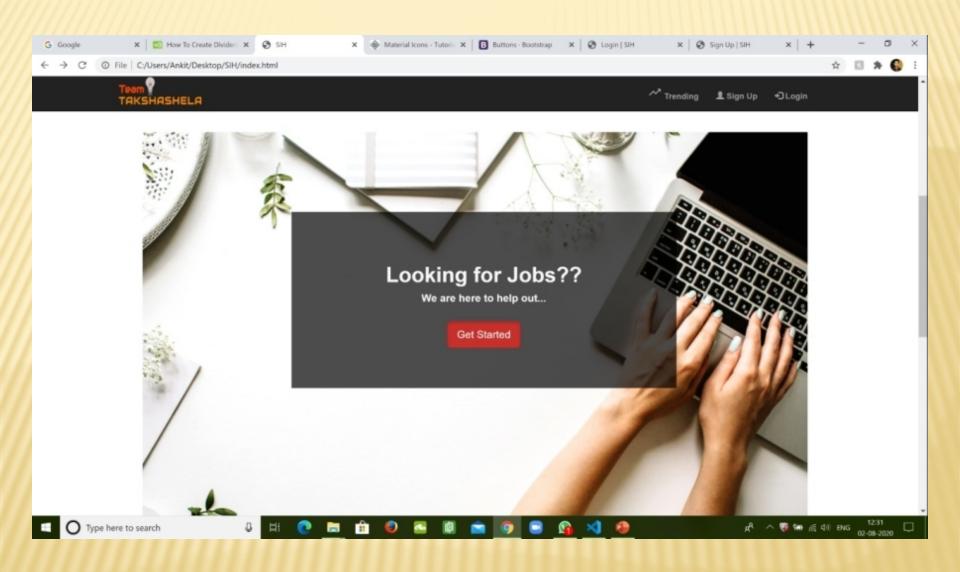




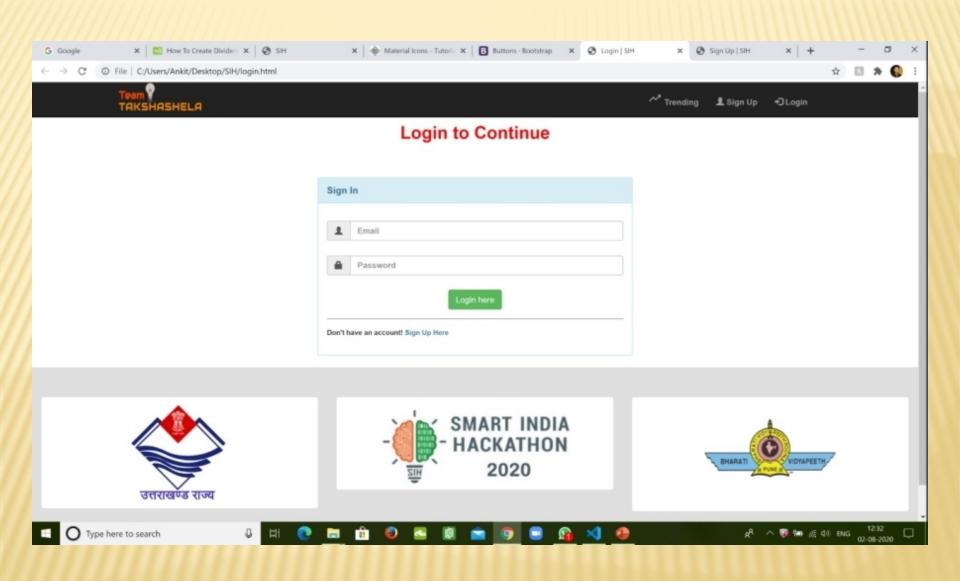


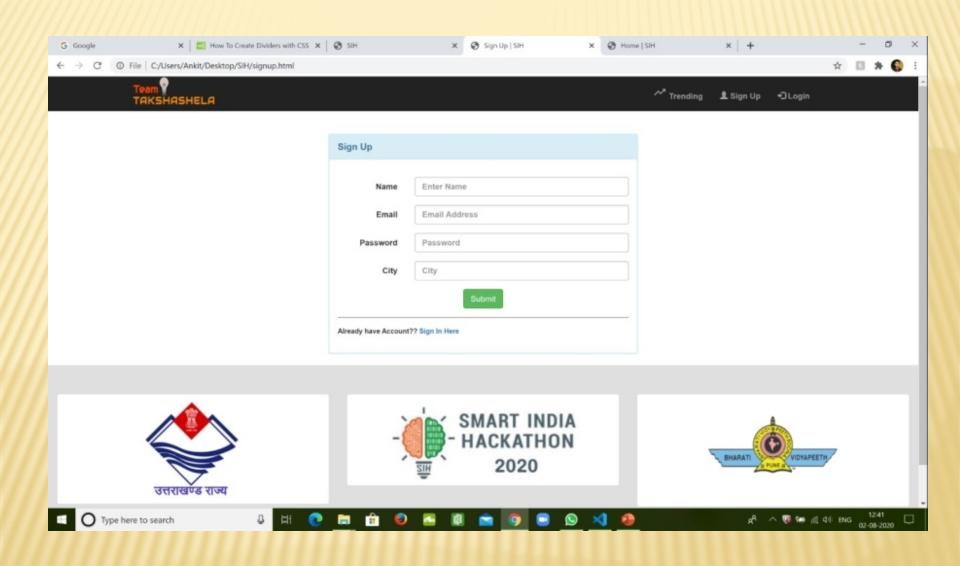












THANK YOU