



SMART INDIA
HACKATHON
2020

PRESENTED BY

TEAM TAKSHASHELA

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.

PROJECT OF GOVERNMENT OF UTTARAKHAND

WE DIVIDED THE PROJECT INTO TWO SECTIONS :-



BACKEND DEVELOPMENT

1. The Greatest challenge that we have faced is to find the data set that fullfil our requirements.



2. In early beginning, we weren't able to find such data set so we scraped the web and created our own dataset.

3. When we are thinking about the independent and dependent variables, we came across that vacancy will be the better option for dependent variable to predict the jobs in future. As it can give the better insight of future job conditions.

4. We have used numpy and pandas libraries for cleaning the data set.

BACKEND DEVELOPMENT

5. We have applied and compared the various algorithms, scores and predictions.



6. After applying the algorithms we found that XGBoost Algorithm is giving us better and faster results compared to others.

7. While implementing algorithm, random forest also gives us good score but it has high RMSE value, Therefore we Choose XGboost.

8. Therefore, we have selected XGBoost as our final Algorithm.

9. We have also use Count Vectorizer technique while cleaning the data.

FURTHER IMPLEMENTATION (WORKING) :-



1. We are working on Plotting the learning curve and other graphs and will try comparing it's RMSE values to maximize the accuracy and minimize the error of the algorithm used.
2. We are also working on the Backend and Frontend connectivity using Flask.

FRONTEND DEVELOPMENT



1. For the frontend we are using html, css and bootstrap.
2. Firstly, we designed a sign up page for job website.
3. Then we worked for login page for job website.
4. Finally, we come up with design of the website.

FURTHER IMPLEMENTATION



1. We are working on captcha on login page for security purpose.
2. We are also working on the frontend and backend connectivity using flask.

SUGGESTION TIME

THANK YOU