IDENTIFYING PATTERNS AND TRENDS IN CAMPUS PLACEMENT DATA USING MACHINE LEARNING

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1.INTRODUCTION

1.1.OVERVIEW

Campus recruitment is a strategy for sourcing, engaging and hiring young talent for internship and entry-level positions. College recruiting is typically a tactic for medium- to large-sized companies with high-volume recruiting needs, but can range from small efforts (like working with university career centers to source potential candidates) to large-scale operations (like visiting a wide array of colleges and attending recruiting events throughout the spring and fall semester).Campus recruitment often involves working with university career services centers and attending career fairs to meet in-person with college students and recent graduates.Our solution revolves around the placement season of a Business School in India. Where it has various factors on candidates getting hired such as work experience,exam percentage etc., Finally it contains the status of recruitment and remuneration details.

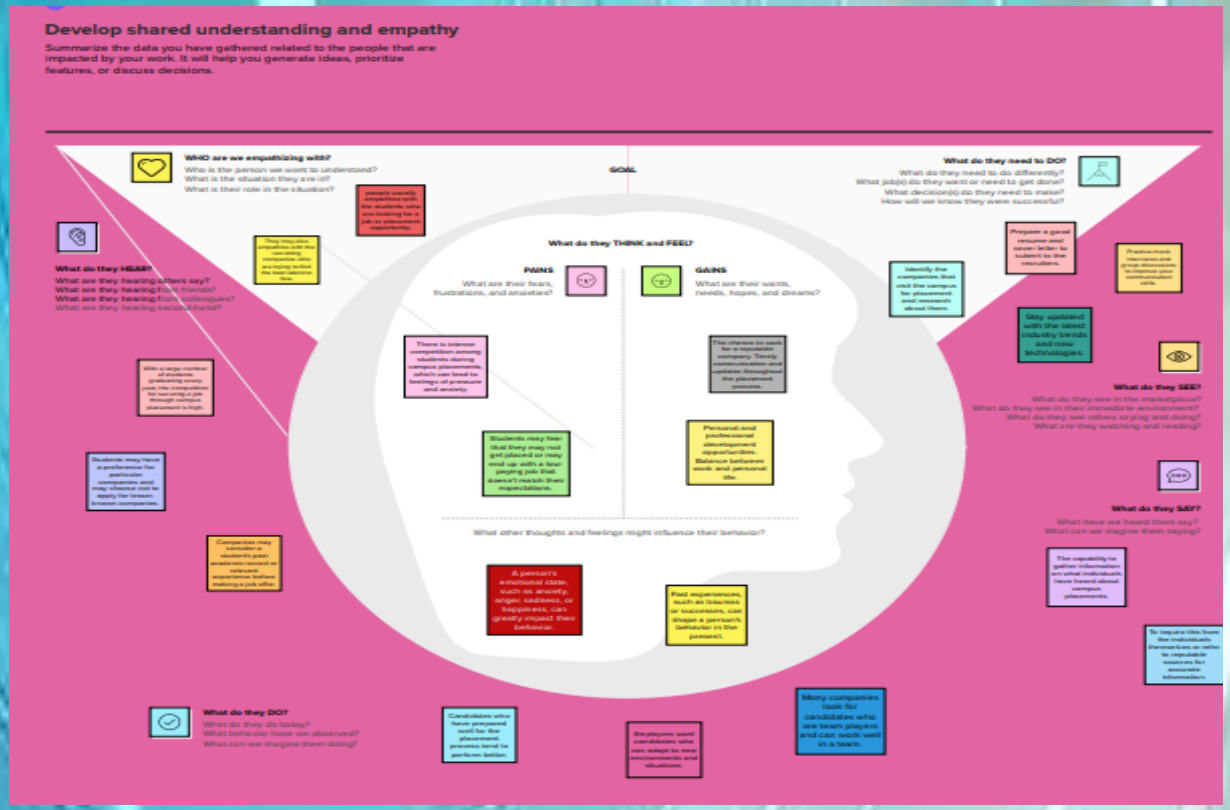
PURPOSE

The main objective of campus recruitment is to identify & recruit desirable & efficient workforce at the early stage itself.

These candidates are further trained as per the requirements of the company. Campus placement not only reduces the time & effort of students in finding their desired jobs at an individual level.

2.PROBLEM DEFINITION & DESIGN THINKING

Empathy Map



Ideation & Brainstroming map screenshot

Campus Placement

This project aims discuss how to predict the status of as student based on various student attribute using machine learning algorithms. This project focus on a student qualification, student data and experience

10 minutes to prepare

1 hour to collaborate

2-8 people recommended

We are form the group

Team leader sign in mural account throw the our user name and mail id. Team leader sharing a inviting a workspace link throw the mail id in our group members. Our team members join a workspace.

10 minutes

A **Team gathering**

Totally four participations are there .We invite members through mural link and gathered in the session.

B **Set the goal**

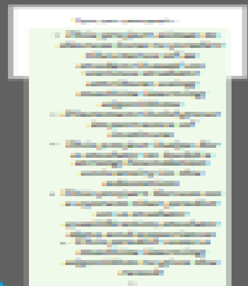
Campus recruitment is strategy for sourcing, engaging and hiring young talents for internship and entry- level positions.

1

Project Description

This project helps for a student to build a strong foundation university in the education. This predict uses a machine learning algorithm to give the result.

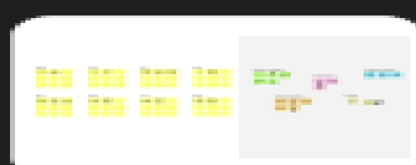
5 minutes



Key rules of brainstorming

To run an smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.



Need some inspiration?

See a finished version of this template to kickstart your work.

Open example

2

Project ideas

From this the best model is selected and saved in .pkl format. It is the most crucial aspect that makes algorithm training possible. Further we will use this model for Rasa integration.

10 minutes

TIP

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

Person 1

Person 2

Person 3

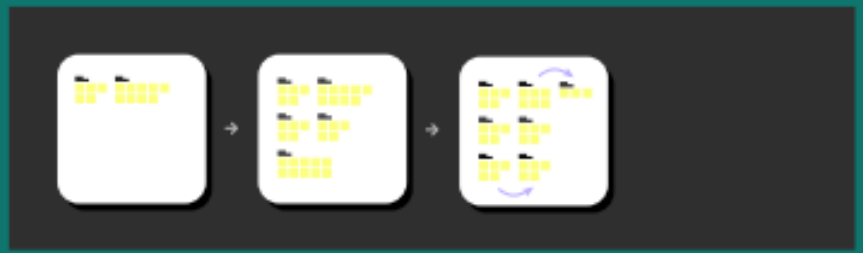
Person 4

Person 5

Person 6

Person 7

Person 8



3

Group Ideas

1. In this project we have used .csv data
2. KNN,SVM and ANN algorithms used.
3. Application building create an HTML file build python code
4. We can read the dataset with the help of pandas
5. rdf.pkl is our saved model

20 minutes

Application building create an HTML file build python code

In this project we have used .csv data

TIP

Add invulnerable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

KNN, SVM and ANN algorithms used

rdf.pkl is our saved model

We can read the dataset with the help of pandas

After you collaborate

We can export the mural as pdf to share. It is helpful to getting information.

Quick add-ons

Share the mural
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

Export the mural
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

Strategy blueprint
Define the components of a new idea or strategy.

Open the template →

Customer experience journey map
Understand customer needs, motivations, and obstacles for an experience.

Open the template →

Strengths, weaknesses, opportunities & threats
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.

Open the template →

Share template feedback

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

Visualizing and analyzing data

Form this the best model is selected and saved in .pkl format

HTML pages stored in the templates folder and a python script app.py for scripting

Application building
Create an HTML file
Build python code

Data preprocessing

internship

In this project we have used .csv data

Training and testing the model

college students and recent graduates

KNN,SVM and ANN algorithms used.

Flask integration and IBM deployment.

Evaluating performance of model.

rdf.pkl is our saved model

We can read the dataset with the help of pandas

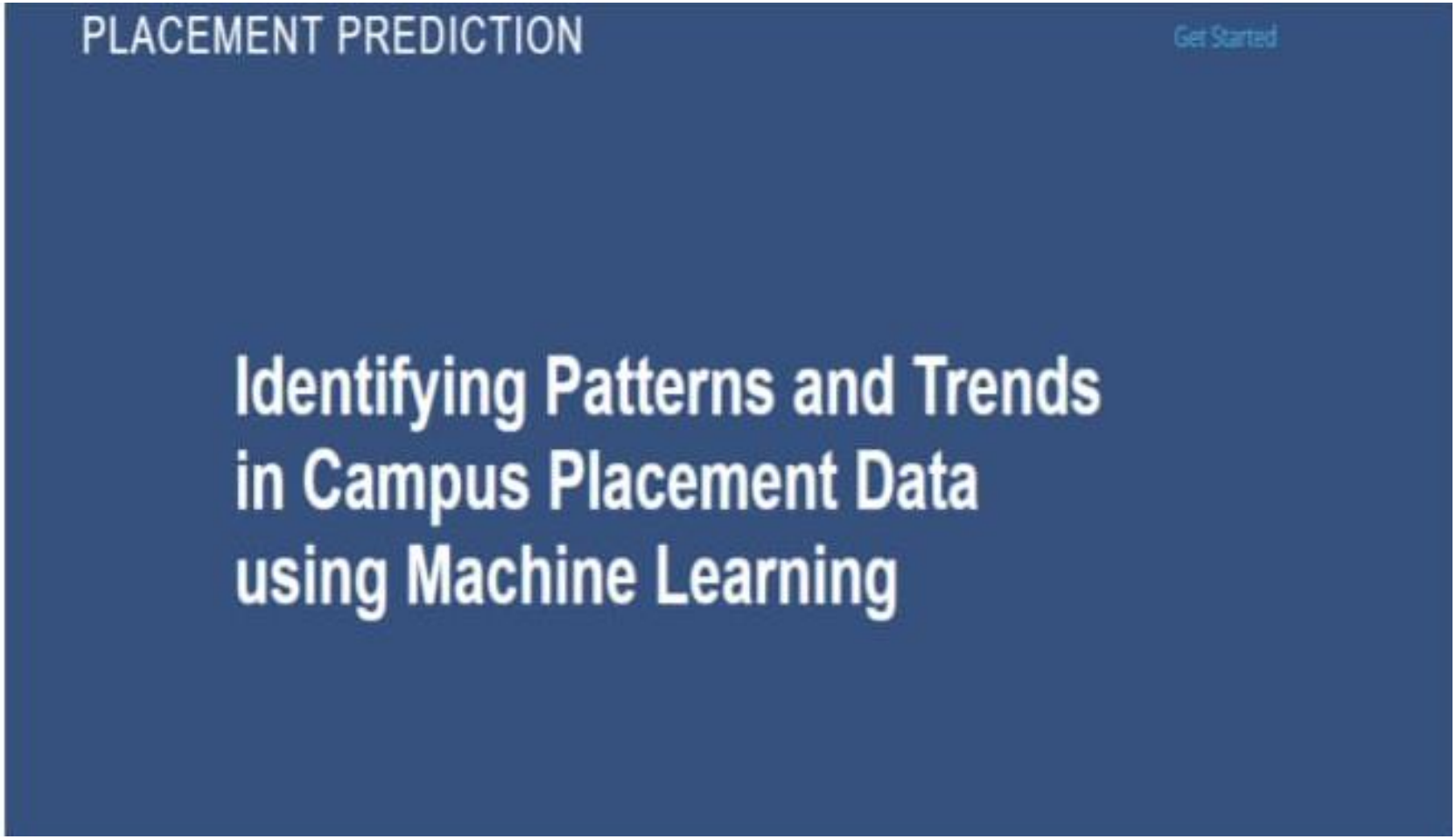
Training folder contains a model training file

This data is downloaded from kaggle.com

Importance

Feasibility

3.RESULT


PLACEMENT PREDICTION
Get Started
Identifying Patterns and Trends
in Campus Placement Data
using Machine Learning

FILL THE DETAILS

22

0

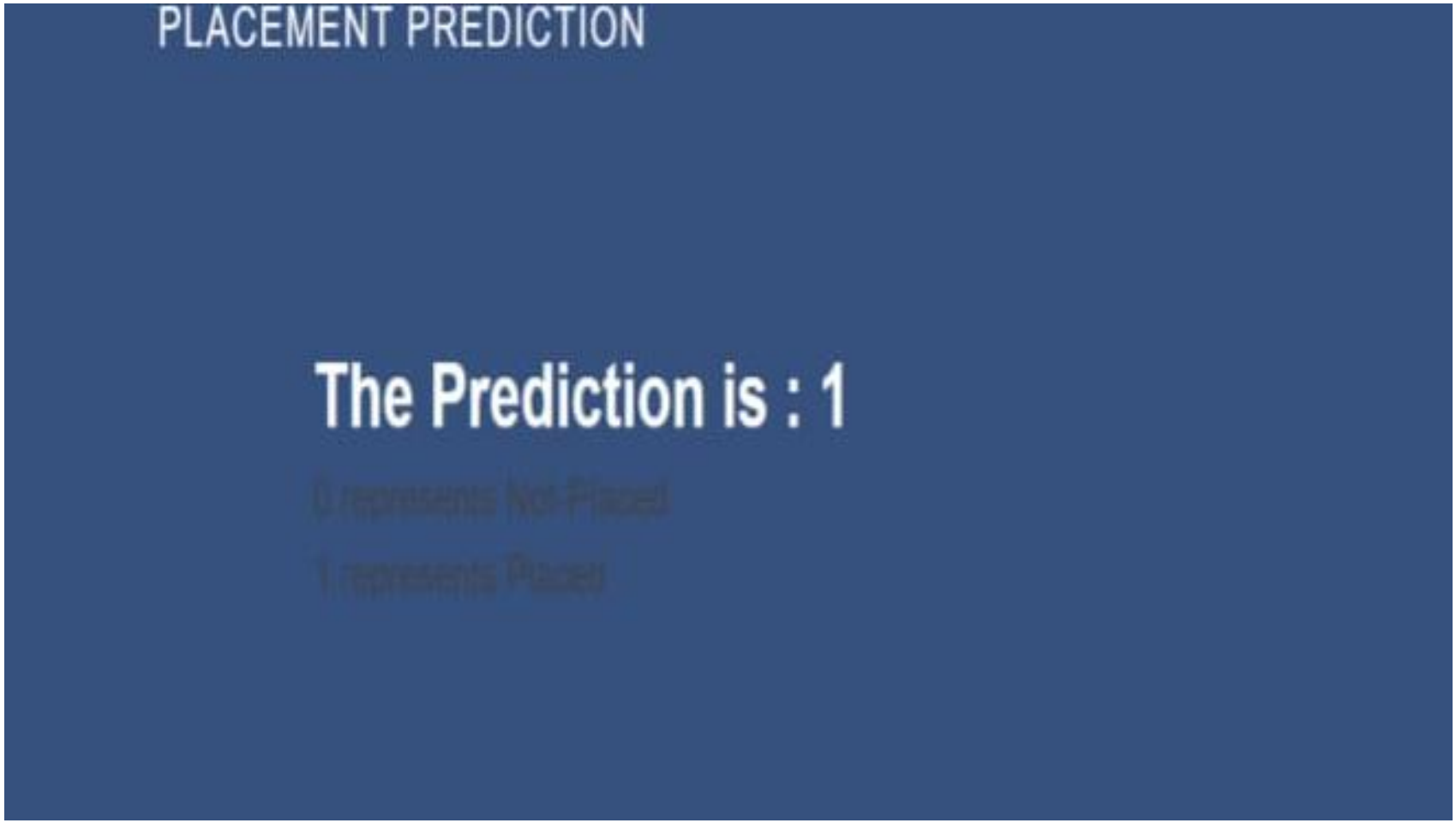
2

1

8

1

Submit


PLACEMENT PREDICTION
The Prediction is : 1
0 represents Not Placed
1 represents Placed

4.ADVANTAGES

Saves Time & Efforts.
Improved Retention Rates.
Getting New Knowledge & Skills.
Quick Learners & Multi-tasking candidates.
Good relationship between Organization & Campus.
High Volume of Talent Pool. ...
Resumes are the only way to select a candidate.
Limited Staff & Time.

DISADVANTAGES

Campus recruitment is an expensive affair for majority of the companies as it adds up costs to the bottom line.
Fresh candidates selected through campus placements require adequate training for work.

5.APPLICATIONS

Artificial Intelligence is a very popular topic which has been discussed around the world. Machine learning is one of the most exciting technologies of AI that gives systems the ability to think and act like humans.

Machine learning is a subfield of AI and has its various application which helps to make a prediction, analysis, classification, etc. that is recognized by the companies across several industries(like Financial Service, Government, Healthcare, Transportation, etc.) that deal with huge volumes of data needed by the organizations in running their business effectively and to get an edge over their competitors.

6.CONCLUSION

Conclusion for Identifying Patterns and Trends in Campus Placement Data using Machine Learning

Identifying patterns and trends in campus placement data using machine learning can provide valuable insights to educational institutions and employers to improve their recruitment processes and prepare students for the job market.

By analyzing factors such as academic performance, skills, and demographics, machine learning algorithms can identify correlations and make predictions about which students are more likely to be successful in obtaining employment.

Overall, the use of machine learning in analyzing campus placement data can provide significant benefits for both educational institutions and employers, ultimately leading to improved job outcomes for students and a more efficient recruitment process for employers.

7.FUTURE SCOPE

- Future enhancement for Identifying Patterns and Trends in Campus Placement Data using Machine Learning There are several potential enhancements that could be made to identify patterns and trends in campus placement data using machine learning.
- **Here are a few ideas:** Incorporate natural language processing (NLP): Many campus placement reports include written feedback from both employers and students. By incorporating NLP techniques, machine learning algorithms could extract insights from this unstructured data to identify patterns and trends in what employers are looking for in candidates and how students are responding to their job offers.
- **Use graph analysis techniques:** Campus placement data typically involves complex relationships between multiple variables such as colleges, companies, job roles, and students. Graph analysis techniques such as network analysis and graph clustering could be used to identify patterns and trends in these relationships.