

PROJECT REPORT

1. **Introduction:**

Overview

University admission is the process by which students are selected to attend a college or university. The process typically involves several steps, including submitting an application, taking entrance exams, and participating in interviews or other evaluations.

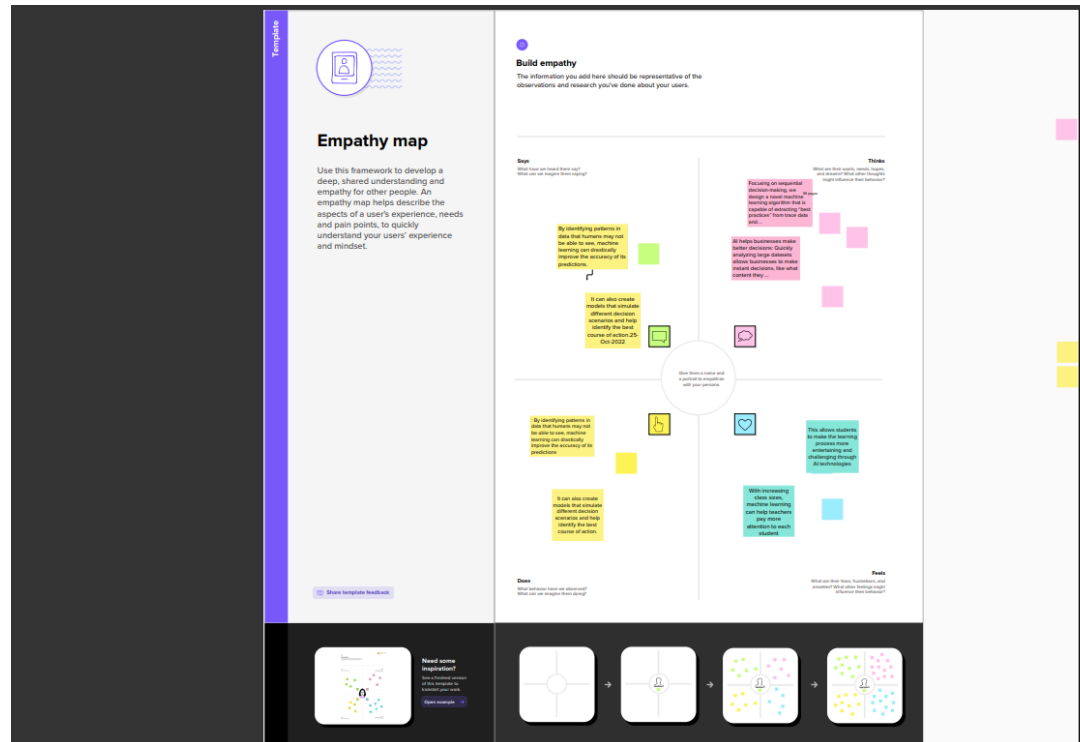
Students are often worried about their chances of admission in University. the university admission process for students can be demanding, but by being well-informed, prepared, and organized, students can increase their chances of being admitted to the university of their choice.

Purpose

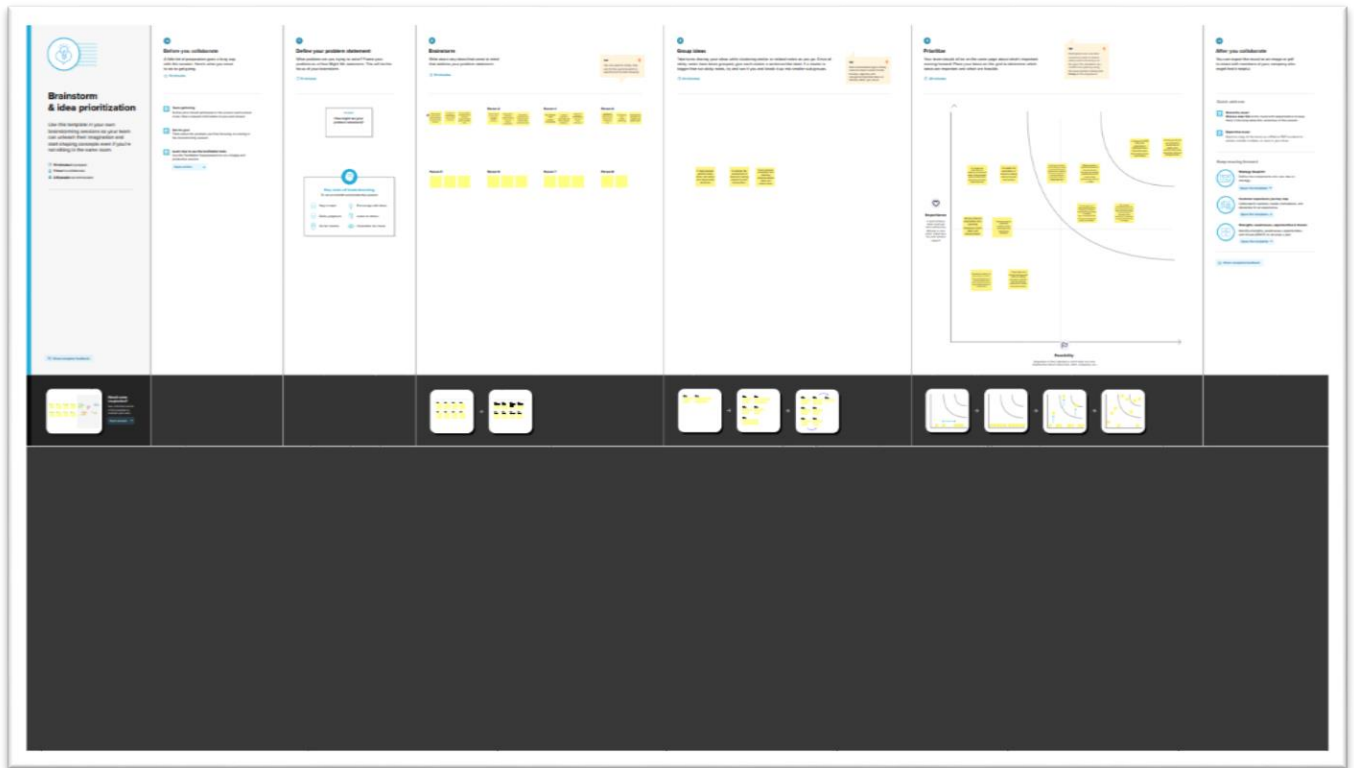
With this project, students can make more informed decisions about which universities to apply to, and universities can make more efficient use of their resources by focusing on the most promising applicants. The predicted output gives them a fair idea about their admission chances in a particular university.

2. Problem Definition & Design thinking

Empathy Map



Ideation & Brainstorming Map



INTELLIGENT ADMISSIONS: THE FUTURE OF UNIVERSITY DECISION MAKING WITH MACHINE LEARNING

Project Based Experiential Learning Program

3. Result

Date Model

22
0
2
1
8
1

Submit

PLACEMENT PREDICTION

The Prediction is : 1

0 represents Not Placed
1 represents Placed

Milestone 2: Data Collection & Preparation

Activity 1: Collect the dataset

```
In [3]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
```

Activity 1.2: Read the Dataset

Our dataset format might be in .csv, excel files, .txt, .json, etc. We can read the dataset with the help of pandas.

In pandas we have a function called `read_csv()` to read the dataset. As a parameter we have to give the directory of the csv file

```
In [75]: Data = pd.read_csv('C:/Users/ALEX/Desktop/intelligent admission The future of university decision making with machine learning/Da
<
In [10]: Data.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 400 entries, 0 to 399
Data columns (total 9 columns):
#   Column              Non-Null Count  Dtype
---  ---
0   Serial No.          400 non-null   int64
1   GRE Score            400 non-null   int64
2   TOEFL Score          400 non-null   int64
3   University Rating    400 non-null   int64
4   SOP                  400 non-null   float64
5   LOR                  400 non-null   float64
6   CGPA                 400 non-null   float64
7   Research             400 non-null   int64
8   Chance of Admit      400 non-null   float64
dtypes: float64(4), int64(5)
memory usage: 28.2 KB

In [12]: Data.isnull().any()
```

Activity 2: Data Preparation

As we have understood how the data is, let's pre-process the collected data. The download data set is not suitable for training the machine learning model as it might have so much randomness so we need to clean the dataset properly in order to fetch good results. This activity includes the following steps.

- Handling Missing data
- Handling Categorical data
- Handling missing data

Activity 2.1: Handling missing values :

Let's find the shape of our dataset first. To find the shape of our data, the df.shape method is used. To find the data type, df.info() function is used.

```
In [57]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2966 entries, 0 to 2965
Data columns (total 8 columns):
#   Column                Non-Null Count  Dtype
---  ---
0   Age                   2966 non-null   int64
1   Gender                2966 non-null   object
2   Stream                2966 non-null   object
3   Internships           2966 non-null   int64
4   CGPA                  2966 non-null   int64
5   Hostel                2966 non-null   int64
6   HistoryOfBacklogs     2966 non-null   int64
7   PlacedOrNot           2966 non-null   int64
dtypes: int64(6), object(2)
memory usage: 185.5+ KB
```

```
In [58]: df.isnull().sum()
```

```
Out[58]: Age                0
Gender                    0
Stream                   0
Internships              0
CGPA                     0
Hostel                   0
HistoryOfBacklogs        0
PlacedOrNot              0
dtype: int64
```

4. Trailhead Profile:

TeamLead :ANITHA S

Member 1 : POTHUMPONNU.

Member 2: RAMAKRISHNAN

Member 3 :VIGNESHWARAN

5. Advantages:

1. Students are offered prestigious job roles in a reputed organization before completing the degree.
2. Helps the recruiters to find the right fit for the organization without wasting time.
3. Formation of a cordial relationship between the company and the college.
4. The chances of selection in campus placements are high in comparison to off-campus and pool placements.

Disadvantages:

1. Candidates need to work hard to crack campus placement interviews and as freshers, they require a lot of training for work.
2. Often, students at a college don't get their dream companies and they have to settle for the companies that recruit them at the time of campus placement at relatively lesser pay packages.

6. Appendix:

```
from flask import Flask, render_template , request

app=Flask(__name__)

import pickle

import joblib

model=pickle.load(open("placement123.pkl",'rb'))

ct=joblib.load('placement')

@app.route('/')

def hello():

return render_template("index.html")
```

```

@app.route('/guest', methods = ["Post"])

def Guest():

    sen1=request.form["sen1"]

    sen2=request.form["sen2"]

    sen3=request.form["sen3"]

    sen4=request.form["sen4"]

    sen5=request.form["sen5"]

    sen6=request.form["sen6"]

    @app.route('/y_predict', methods = ["POST"])

    def y_predict():

        x_test = [(yo) for yo in request.form.values()]

        prediction =model.predict(x_test)

        prediction = prediction[0]

        return render_template("secondpage.html",y=prediction)

app.run(debug=True)

```

7. Conclusion:

Besides being all goody-goody, **campus placements** have their **disadvantages** too.

The remuneration offered to students is meagre, entry-level jobs aren't exactly as promised, joining can be delayed infinitely and a limited number of companies arrive for placement drive, so that restricts opportunities to a bare minimum for only a select few students.