IDENTIFYING PATTERNS AND TRENDS IN CAMPUS PLACEMENT DATA USING MACHINE LERNING

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PROJECT REPORT CHAPTER 1

INTRODUCTION:

1.1 Overview

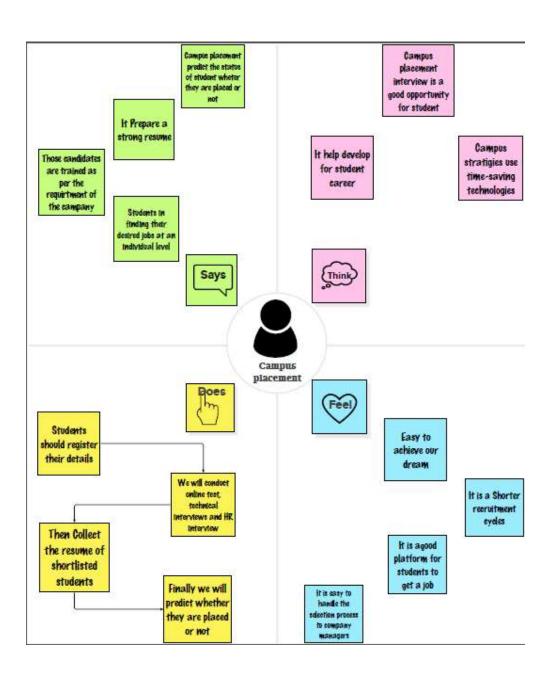
Campus recruitment is a strategy for sourcing, engaging and hiring young talent for internship and entry-level positions. Campus placement is a program conducted within universities or other educational institution to provide jobs to students nearing completion of their studies. Campus recruitment often involves working with university career fairs to meet in-person with college students and recent graduates. Campus recruiting efforts and finding ways to improve could be a full-time job in and of itself. Technology and recruitment approaches to find, attract and hire college talent are evolving every day, perhaps the best place to start is with the big picture.

1.2 Purpose:

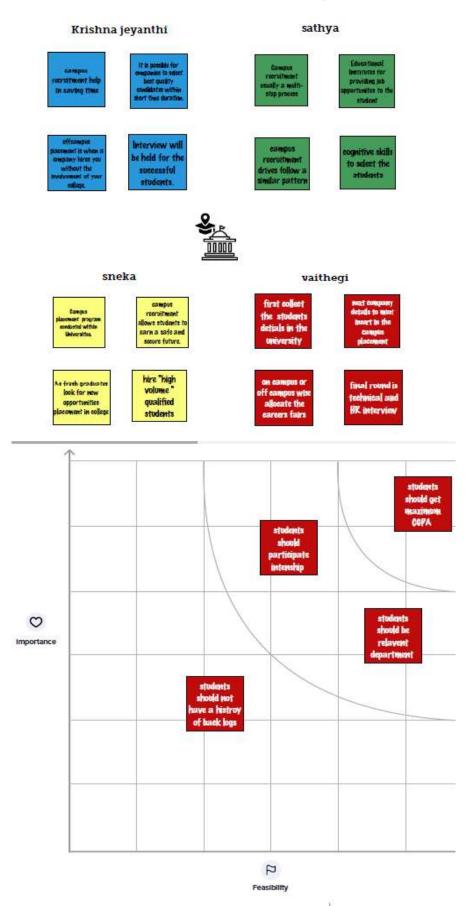
The purpose of campus placement is so simple to provide you a start of your career and a safe future. There are two types of placement one is on campus placement and the other one is off campus placement. On campus placement, the recruiter companies which come to your college know that they are going to recruit fresher students and they don't expect so much from that students. Off campus placement, then you can feel that there is an increment in the expectations of the recruiting company. And it will be a little it difficult to put some extra efforts in getting yourself placed in a reputed organization.

PROBLEM DEFINITION & DESIGN THINKING

2.1 Empathy Map

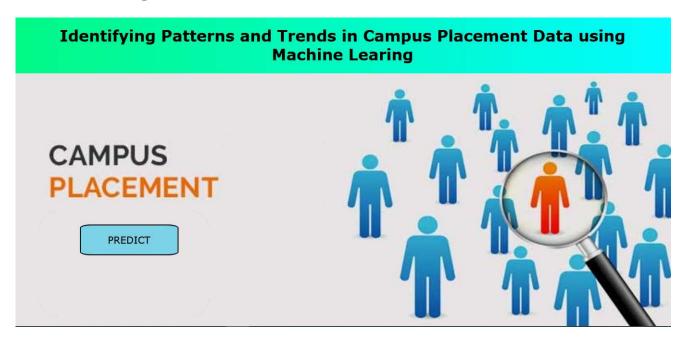


2.2 Ideation & Brainstorming Map

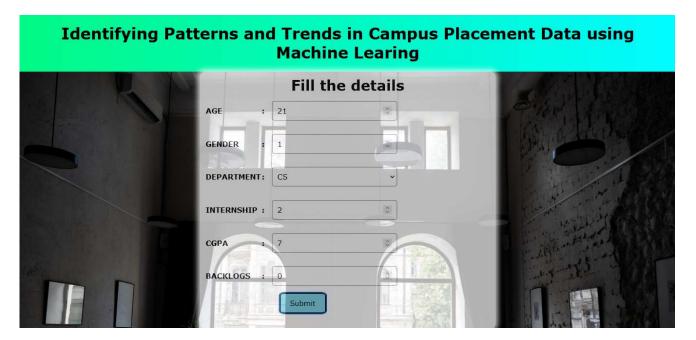


RESULT:

Home Page:



Form Page:



Result Page:



ADVANTAGES:

- ❖Save Time &Efforts
- **❖**Large Opportunities For Students
- ❖Campus and Company Bond / Strong Relationship
- Improved Retention Rates
- ❖Getting New Knowledge & Skills

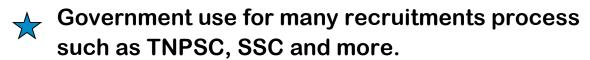
DISADVANTAGES:

- Limited Staff & Time
- ❖Lack Of Proper Branding
- High Candidates Number
- ❖Importance Of a Resume

CHAPTER 5

APPLICATIONS:





★ Education institutions use for admitting higher studies

★ Job hiring for private companies

Conclusion:

Maximum work goes manually in the present placement system which make it take time to changes. This includes main problem like searching for the data of students and sorting them along with it. Also, updating student data is a cumbersome job does not have a method to notify the student in time which makes the management of the placements very difficult. The registration of the student for an upcoming placement, the addition of a new user, notifying students, sharing information etc is all met. The student list based on the criteria required which otherwise would have been very difficult to manage.

CHAPTER 7

FUTURE SCOPE:

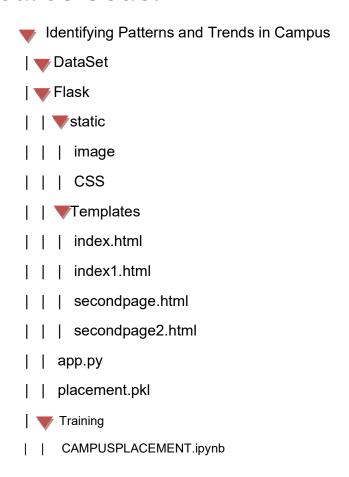
★ We will arrange a course for the students to increase their skills

We will estimate the model for each company individually As per their requirement.

We will implement this project for whole student database instead of feeding details of each student

APPENDIX

Source Code:



HOME PAGE:

```
Index.html

<html>

<head>

<title>HOME</title>

link rel="stylesheet" type="text/css" href="{{url_for('static', filename='index.css')}}">

</head>
<body>
```

```
<div>
                       <h1>Identifying Patterns and Trends in Campus Placement
Data using Machine Learing</h1>
                 </div>
                 <div>
                       <form action="/guest" method="GET">
                            <input type="submit" name="predict" onclick="action"</pre>
value="PREDICT">
                       </form>
                 </div>
            </body>
</html>
index.css
* {
            margin: 0;
            box-sizing: border-box;
           font-family: Verdana;
}
body {
            background-image: url("/static/placement.jpg");
 background-repeat: no-repeat;
 background-size: cover;
}
h1 {
            padding: 20px;
            text-align:center;
            background
                            : linear-gradient(to right,#01F985,#00FBFF);
}
```

```
input[type=submit] {
            border: 2px solid black;
            height: 10%;
           width: 15%;
           font-size: 20px;
           text-align: center;
            padding: 14px 28px;
 margin: 23% 10%;
 margin-bottom: 0px;
            background-color: #79d2e6;
            border-radius: 10%
}
input[type=submit]:hover {
            background-color: red;
}
#mylmg {
            position: absolute;
           top: 100px;
 width: 100%;
 height:500px;
 object-fit: cover;
 object-position: 0% 0%;
 animation: mymove 5s infinite;
}
@keyframes mymove {
 0% {
  object-position: 0% 0%;
```

```
}
 25% {
  object-position: 20% 0%;
}
50%{
  object-position:30% 50%;
}
 100% {
  object-position: 100% 100%;
}
FORM PAGE:
Index1.html
<html>
           <head>
                <title>HOME</title>
                k rel="stylesheet" href="{{url_for('static',filename =
'index1.css')}}" type="text/css">
           </head>
           <body>
                <div>
                     <h1>Identifying Patterns and Trends in Campus Placement
Data using Machine Learing</h1>
                </div>
                <div id="formId">
                     <form action="/y predict" method="POST">
                           <h3>Fill the details</h3>
```

```
AGE
                            :
                            <input type="number" id="sen1"
name="sen1" min="21" placeholder="21 to 45">
                        GENDER
                            :
                            <input type="number" id="sen2"
name="sen2" min="0" max="1" placeholder="Gender M(0),F(1)">
                        DEPARTMENT
                            :
                            <select id="sen3" name="sen3">
<option value="-1"selected>[choose yours]
value=0>Civil</option><option value=1>CS</option><option value=2>Electronics
</option><option value=3>Electronics & Communication</option><option value=4>
Information Technology</option><option value=5> Mechanical</option> </select>
INTERNSHIP
                            :="number"
id="sen4" name="sen4" min="0" max="3" placeholder="Internship">
                        CGPA
                            :
```

```
<input type="number" id="sen5"
name="sen5" min="4" max="10" placeholder="CGPA">
                            BACKLOGS
                                 :
                                 <input type="number" id="sen6"
name="sen6" min="0" max="5" placeholder="Number of backlogs">
                            <input type="submit"
value="Submit" onclick="action">
                            <!--<input type="number" id="sen3" name="sen3"
placeholder="Stream civil(0),CS(1),Electrical(2),Electronics And
Communication(3),Information Technology(4),Mechanical(5)">-->
                   </form>
              </div>
          </body>
</html>
index1.css
* {
          margin: 0;
          padding: 0;
          box-sizing: border-box;
         font-family: Verdana;
}
h1 {
```

```
padding: 20px;
            text-align:center;
            background: linear-gradient(to right,#01F985,#00FBFF);
}
#formId {
            background: url('office.jpg');
            background-repeat: no-repeat;
            background-size: cover;
}
form {
            margin:
                       auto;
            padding:10px;
            height: 82%;
            width: 45%;
            background-color: #ffffff;
            box-shadow: 0 0 10px 5px #fff;
            opacity: 0.7;
            text-align: center;
            border-radius: 10px;
            font-size:25px;
}
table {
            font-size: 15px;
            font-weight: bold;
}
input {
            margin: 5%;
```

```
padding: 10px;
            height: 10%;
            width: 100%;
            border-radius: 5px;
            border: none;
            border: 1px solid grey;
            background-color: #ffffff;
            font-size: 15px;
            box-sizing: border-box;
}
select {
            margin: 5%;
            padding: 10px;
            border-radius: 5px;
            border: 1px solid grey;
            background-color: #ffffff;
            font-size: 15px;
            box-sizing: border-box;
}
input[type=submit] {
            border: 2px solid black;
            height: 10%;
            width: 25%;
            text-align: center;
            margin: 0% 40%;
            background-color: #79d2e6;
```

```
border-radius: 10%
}
input[type=submit]:hover {
            background-color: red;
}
RESULT PAGE:
1)secondpage.html
<!DOCTYPE html>
<html>
<head>
            <title>HOME</title>
            k rel="stylesheet"
href="{{url for('static',filename='secondpage.css')}}" type="text/css">
            <!--style type="text/css">
                 body{ background-image: url('image.jpg');
 background-repeat: no-repeat;
 background-attachment: fixed;
 background-size: 100% 100%;}
            </style-->
</head>
            <body>
                 <section id="hero" class="d-flex flex-column justify-content-</pre>
center">
                       <div class="container">
                            <div class="row justify-content-center">
                                  <div class="col-xl-8">
                                        <h1 id="hero">  you are placed  <-/h1>
```

```
</section>
            </body>
</html>
secondpage.css
* {
 box-sizing: border-box;
 font-family: Verdana;
body {
 margin: 0;
 background-image: url("image4.png");
 background-repeat: no-repeat;
 background-size: cover;
}
h1 {
 margin: 0;
 padding: 20px;
 text-align:center;
 background : linear-gradient(to right,#01F985,#00FBFF);
}
#formId {
 //height: 100%;
 //width: 100%;
 background-color: black;
```

```
}
form {
 border:none;
 background-color: hotpink;
 text-align: center;
 //opacity:0.3;
 background : linear-gradient(to right,#01F985,#00FBFF);
 margin:100px;
 padding:100px;
 border-radius: 10px;
 font-size:25px;
}
table {
 font-size: 30px;
}
input {
 font-size:25px;
 margin: 5%;
}
select {
 font-size: 25px;
 margin:5%;
}
input[type=submit] {
 border: 2px solid black;
 height: 10%;
 width: 25%;
```

```
font-size: 20px;
 text-align: center;
 padding: 14px 28px;
  margin: 10%;
 background-color: #79d2e6;
 border-radius: 10%
}
input[type=submit]:hover {
 background-color: red;
}
2)secondpage2.html
<!DOCTYPE html>
<html>
<head>
            <title>HOME</title>
            k rel="stylesheet" href="{{url_for('static',filename)}
='secondpage2.css')}}" type="text/css">
</head>
            <body>
                 <section id="hero" class="d-flex flex-column justify-content-</pre>
center">
                       <div class="container">
                             <div class="row justify-content-center">
                                  <div class="col-xl-8">
                                        <h1> sorry, you are not placed (2) </h1>
                                   </div>
```

</div>

```
</div>
              </section>
          </body>
</html>
secondpage2.css
* {
   box-sizing: border-box;
  font-family: Verdana;
}
body {
   margin: 0;
   background-image: url("1.png");
   background-repeat: no-repeat;
   background-attachment: fixed;
   background-size: cover;
}
h1{
   margin: 25% 55%;
   margin-right: 0px;}
```

app.py

```
from flask import Flask,render_template,request
app=Flask(__name___, static_folder='static')
import pickle
model=pickle.load(open("placement.pkl",'rb'))
@app.route('/')
def hello():
      return render_template("index.html")
@app.route('/guest')
def guest():
      return render_template("index1.html")
@app.route('/y_predict',methods=["POST"])
def y_predict():
      sen1=request.form["sen1"]
      sen2=request.form["sen2"]
      sen3=request.form["sen3"]
      sen4=request.form["sen4"]
      sen5=request.form["sen5"]
      sen6=request.form["sen6"]
      value=[[int(sen1),int(sen2),int(sen3),int(sen4),int(sen5),int(sen6)]]
      #x_test=[[(yo) for yo in request.form.values()]]
      prediction=model.predict(value)
      prediction=prediction[0]
      if prediction==1:
            return render_template("secondpage.html")
      else:
            return render_template("secondpage2.html")
if __name__=='__main___':
      app.run(debug=True)
```

CAMPUSPLACEMENT.ipynb

