

Placement Prediction App using Flask

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Machine learning is a widely employed method for making predictions. Numerous algorithms are accessible in different libraries for predictive tasks. In this article, we'll construct a placement prediction model using Random Forest Classifier with historical data and later we will store that model to .pkl file to integrate it with our Flask app using Python.

Placement Prediction in ML using Flask

The motive behind this project is to predict the chance or probability of students getting placed in campus placement drives. Our motive would be to create a full working application that would make predictions. For all this, we require a basic knowledge of <u>Flask</u>, <u>HTML</u>, and <u>Machine Learning</u>. We've taken historical campus placement data and constructed a robust model that can forecast your chances of getting placed.

Topics Covered

- Virtual Environment Setup
- ML model for predictions
- Integration with Flask
- Deployment on the local host

Steps for Creating a Placement Prediction App

Step 1: Create a virtual environment

Flask Templates Jinja2 Flask-REST API Python SQLAlchemy Flask Bcrypt Flask Cookies Json Postman

Pycharm. To create a <u>virtual Environment</u> write the following code in the terminal.

- python -m venv <enviroment name>
- <enviroment name>\Scripts\activate

```
\PycharmProjects\plac> python -m venv myenv
\PycharmProjects\plac> myenv\Scripts\activate
```

ing1: to create an environment

Step 2: Create a Predictive model

placement.py

In this code, a dataset ('Placement_Data_Full_Class.csv') is loaded using pandas, and Label Encoding is applied to convert categorical variables (gender, ssc_b, hsc_b, hsc_s, degree_t, workex, specialisation, status) into numerical format. Missing values in the 'salary' column are filled with the median. The dataset is split into features (X) and target variable (y). A RandomForestClassifier with 26 estimators is trained on the training set, and the resulting model is saved as 'placement.pkl' using the pickle module.

Dataset: <u>Dataset link</u>

Python3

```
Q
      1 import pandas as pd
      2 import numpy as np
      3 import pickle
      4
        df=pd.read csv('Placement Data Full Class.csv')
      5
      6
      7 from sklearn.preprocessing import LabelEncoder
        encoder = LabelEncoder()
      9 df['gender']=encoder.fit_transform(df['gender'])
     10 df['ssc b']=encoder.fit transform(df['ssc b'])
     11 df['hsc_b']=encoder.fit_transform(df['hsc_b'])
     12 df['hsc_s']=encoder.fit_transform(df['hsc_s'])
     13 df['degree_t']=encoder.fit_transform(df['degree_t'])
     14 df['workex']=encoder.fit transform(df['workex'])
     15 df['specialisation']=encoder.fit_transform(df['specialisat
     16 df['status']=encoder.fit_transform(df['status'])
```

```
df['salary'] = df['salary'].fillna(df['salary'].median())
18
19
20
   X=df.drop('status',axis=1)
  y=df['status']
21
22
  from sklearn.model selection import train test split
23
  X train,X test,y train,y test =
24
   train test_split(X,y,test_size=0.3,random_state=101)
25
   from sklearn.ensemble import RandomForestClassifier
26
   rf=RandomForestClassifier(n estimators=26)
27
   rf.fit(X train,y train)
28
29
   pickle.dump(rf,open('placement.pkl','wb'))
30
```

Now, paste the above code into your .py file and run it using python <Name of File>.py in the terminal. After running the code, a .pkl file would be generated.

Output

```
■ Placement_Data_Full_Class.csv

= placement.pkl

placement.py
```

img2: .pkl file generated

Step 3: Setting up GUI

front.html: This code creates a Flask web application that lets users input data. When users submit the form, the data is used to make predictions with a pre-trained machine learning model. The results are then displayed on a webpage. The 'placement.pkl' model is loaded using the 'pickle' library.

HTML

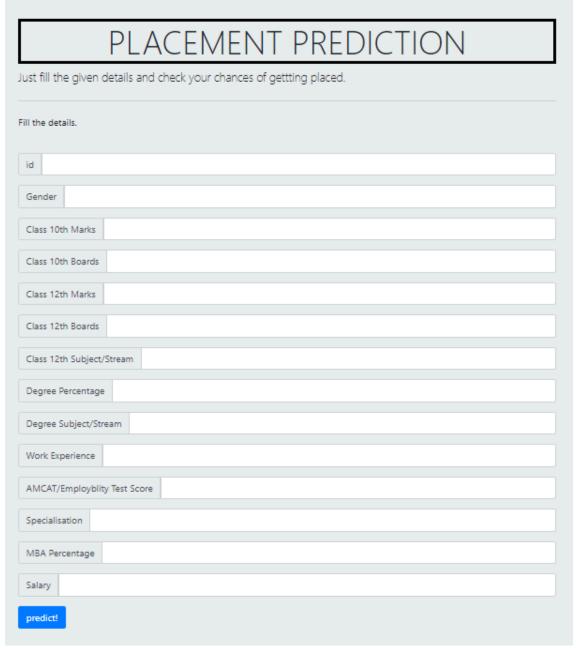
```
<!DOCTYPE html>
C
       2 <html>
          <head>
               <title>Placement Prediction</title>
       5
               <style type="text/css">
                    h1{ font-size: 60px;
       6
                         text-align: center;
                         color: #e32037;
                         border: 5px solid black;
                         font-family: 'Impact';
       10
       11
       12
                    body{
       13
       14
                    background-size:cover;
             }
       15
       16
                   legend{font-size: 20px;
      17
```

```
text-align: center;}
19
20
             .note{color: #FF0000;}
21
22
23
        </style>
24
25
     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0"</pre>
     <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrit</pre>
27
     <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/pop</pre>
28
     <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/boots</pre>
29
    </head>
30
    <body>
31
32
33
        <div class="jumbotron">
            <h1 class="display-4">PLACEMENT PREDICTION</h1>
34
             Just fill the given details and check your chance
35
            <hr class="my-4">
36
            Fill the details.
37
            38
                 <form method="POST", action="{{url for('home')}}">
39
                     <fieldset>
40
                     chrs
41
42
                     <div class="input-group mb-3">
43
                          <div class="input-group-prepend">
44
                            <span class="input-group-text" id="inputGroup-sizi</pre>
45
46
                          <input type ="number" name="id" class="form-control"</pre>
47
                     </div>
48
49
                     <div class="input-group mb-3">
50
                          <div class="input-group-prepend">
51
                            <span class="input-group-text" id="inputGroup-sizi</pre>
52
53
                          </div>
                          <input type ="number" name="gender" min="0" max="1</pre>
54
55
                     </div>
56
                     <div class="input-group mb-3">
57
58
                          <div class="input-group-prepend">
                            <span class="input-group-text" id="inputGroup-sizi</pre>
59
60
                          </div>
                          <input type ="number" name="marks1" min="0" max="10"</pre>
61
                     </div>
62
63
                     <div class="input-group mb-3">
64
65
                          <div class="input-group-prepend">
                            <span class="input-group-text" id="inputGroup-sizi</pre>
66
                          </div>
67
                          <input type ="number" name="boards1" min="0" max="1'</pre>
68
                     </div>
69
70
                     <div class="input-group mb-3">
71
                          <div class="input-group-prepend">
72
                            <span class="input-group-text" id="inputGroup-sizi</pre>
73
74
```

```
<input type ="number" name="marks2" min="0" max="10"</pre>
76
                     </div>
77
                     <div class="input-group mb-3">
78
                         <div class="input-group-prepend">
79
                            <span class="input-group-text" id="inputGroup-sizi</pre>
80
81
                         </div>
                         <input type ="number" name="boards2" min="0" max="1'</pre>
82
                     </div>
83
84
                     <div class="input-group mb-3">
85
86
                         <div class="input-group-prepend">
                            <span class="input-group-text" id="inputGroup-sizi</pre>
87
88
                         <input type ="number" name="strm" min="0" max="2" </pre>
89
90
                     </div>
91
                     <div class="input-group mb-3">
92
                         <div class="input-group-prepend">
93
                            <span class="input-group-text" id="inputGroup-sizi</pre>
94
95
                         96
97
                     </div>
98
                     <div class="input-group mb-3">
99
                         <div class="input-group-prepend">
100
                            <span class="input-group-text" id="inputGroup-sizi</pre>
101
102
103
                         <input type ="number" name="deg s" min="0" max="2"</pre>
                     </div>
104
105
                     <div class="input-group mb-3">
106
                         <div class="input-group-prepend">
107
                            <span class="input-group-text" id="inputGroup-sizi</pre>
108
109
                         </div>
                         <input type ="number" name="wrx" min="0" max="1" c]</pre>
110
                     </div>
111
112
                     <div class="input-group mb-3">
113
                         <div class="input-group-prepend">
114
115
                            <span class="input-group-text" id="inputGroup-sizi</pre>
116
117
                         </div>
118
119
                     <div class="input-group mb-3">
120
                         <div class="input-group-prepend">
121
122
                            <span class="input-group-text" id="inputGroup-sizi</pre>
123
                         <input type ="number" name="sp" min="0" max="1" clas</pre>
124
125
                     </div>
126
                     <div class="input-group mb-3">
127
                         <div class="input-group-prepend">
128
                            <span class="input-group-text" id="inputGroup-sizi</pre>
129
130
                         </div>
                         <input type ="number" name="mba p" min="0" max="100'</pre>
131
```

```
</div>
133
                      <div class="input-group mb-3">
134
                           <div class="input-group-prepend">
135
                             <span class="input-group-text" id="inputGroup-sizi</pre>
136
                           </div>
137
                           <input type ="number" name="sal"class="form-control"</pre>
138
                      </div>
139
140
141
                      <input type="submit" value ="predict!" class="btn btn-pr</pre>
142
                      <a href="{{ url_for('home')}}"></a>
143
                      </fieldset>
144
                      </form>
145
146
147
                      <fieldset><legend>Note</legend>
148
                        1. For Gender: press 0 for female and 1 for male <br>
149
                        2. For Class 10th and 12th Boards: 0 for central and 1
150
                        3. For Class 12th Subject/Stream: 0 for Commerce 1 for
151
                        4. For degree stream: 0 for Commerce, 1 for other and
152
153
                        5. For work Experience: 0 for No and 1 for Yes<br/>
                        6. MBA Specialisation: 0 for (Finance and Marketing) a
154
155
                      </fieldset>
156
157
             158
159
           </div>
160
    </body>
161
    </html>
162
```

Output



home.html: The page displays a result message, which can be either "Congratulations!!!" in green if the prediction is positive or "Sorry!" in red if the prediction is negative. This code also converts the numeric values(input values) into human readable text(e.g., '0' for gender becomes 'Female').

HTML

```
1 <html>
Q
       2 <head>
            <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.</pre>
          <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrit</pre>
          <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/pop</pre>
           <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/boots</pre>
       6
       7
         </head>
       8
          <body bgcolor=#1ff0d0>
       10
               <center>
       11
                   <div class="jumbotron">
```

```
<h1 class="display-4">RESULT</h1>
             <hr class="my-4">
14
             {%if data == 0%}
15
16
             <h1 style = "Color : red">Sorry!</h1>
17
             <h3>You have less chances of getting placed</h3>
18
19
20
             {%else%}
21
             <h1 style = "Color : GREEN" > Congratulations!!!</h1>
22
             <h3>You have high chances of getting placed</h3>
23
24
25
             {%endif%}
26
27
28
          <br><br><br>>
          <a href='/'>Go back to home page</a>
29
          <br><br><br>>
30
31
              32
33
34
             35
            </div>
36
      </center>
37
38
39
      40
41
          <thead class="thead-dark">
42
            Index
43
             Information
44
              Value
45
            46
          </thead>
47
48
          49
            50
             1
              ID
51
              {{ data1 }}
52
53
          >
54
55
              2
              Gender
56
              >
57
               {% if data2 =='0' %}
58
                 {% set data2_new = 'Female' %}
59
60
               {% elif data2 == '1' %}
                 {% set data2_new = 'Male' %}
61
               {% else %}
62
                 {% set data2_new = 'Not a valid response' %}
63
               {% endif %}
64
65
               {{ data2_new }}
66
67
               68
```

```
3
71
              Class 10th Marks
72
              {{data3}}
73
74
            75
76
            77
              4
78
              Class 10th Boards
79
              80
81
                {% if data4 =='0' %}
                  {% set data4 new = 'Central' %}
82
                {% elif data4 == '1' %}
83
                  {% set data4_new = 'Other' %}
84
85
                {% else %}
                  {% set data4 new = 'Not a valid response' %}
86
                {% endif %}
87
88
                {{ data4_new }}
89
90
              91
92
            93
            94
              5
95
              Class 12th Marks
96
              {{data5}}
97
98
99
            100
            6
101
              Class 12th Boards
102
              >
103
                {% if data6 == '0' %}
104
105
                  {% set data6_new = 'Central' %}
                {% elif data6 == '1' %}
106
107
                  {% set data6 new = 'Other' %}
                {% else %}
108
                  {% set data6_new = 'Not a valid response' %}
109
110
                {% endif %}
111
112
                {{ data6_new }}
113
              114
115
            116
117
              7
119
120
              Class 12th Subject/Stream
121
              {% if data7 == '0' %}
122
                {% set data7_new = 'Commerce' %}
123
              {% elif data7 == '1' %}
124
                {% set data7_new = 'Science' %}
125
              {% elif data7 == '2' %}
```

```
{% set data7 new = 'Arts' %}
128
               {% else %}
                 {% set data7_new = 'Not a valid response' %}
129
               {% endif %}
130
131
               {{ data7_new }}
132
133
               134
135
136
             137
             8
138
               Degree Percentage
139
               {{data8}}
140
141
142
             143
             9
144
               Degree Subject/Stream
145
               >
146
147
               {% if data9 == '0' %}
148
                 {% set data9_new = 'Commerce and Management' %}
149
               {% elif data9 == '1' %}
150
                 {% set data9 new = 'Other' %}
151
               {% elif data9 == '2' %}
152
                 {% set data9_new = 'Science and Technology' %}
153
               {% else %}
154
155
                 {% set data9_new = 'Not a valid response' %}
               {% endif %}
157
               {{ data9_new }}
158
159
160
               161
162
             163
164
             >
165
               10
166
167
               Work Experience
               >
168
169
               {% if data10 =='0' %}
                 {% set data10 new = 'No' %}
170
               {% elif data10 == '1' %}
171
                 {% set data10 new = 'Yes' %}
172
               {% else %}
173
174
                 {% set data10_new = 'Not a valid response' %}
               {% endif %}
175
176
               {{ data10_new }}
177
178
               179
180
181
             182
             11
```

```
AMCAT/Employblity Test Score
             {{data11}}
185
186
            187
            188
             12
189
             MBA Specialisation
190
191
             {% if data12 =='0' %}
192
               {% set data12_new = 'Finance and Marketing' %}
193
             {% elif data12 == '1' %}
194
               {% set data12_new = 'HR and Marketing' %}
195
             {% else %}
196
               {% set data12_new = 'Not a valid response' %}
197
198
             {% endif %}
199
             {{data12_new}}
200
             201
202
            203
            204
205
             13
             MBA Percentage
206
             {{data13}}
207
208
            209
210
211
            212
             14
             Salary
213
             {{data14}}
214
215
            216
217
218
219
          220
221
222
223
224
   </body>
225
226
   </html>
227
```

Output

RESULT

Congratulations!!!

You have high chances of getting placed

Go back to home page

Index	Information	Value
1	ID	1234
2	Gender	Male
3	Class 10th Marks	92
4	Class 10th Boards	Other
5	Class 12th Marks	85
6	Class 12th Boards	Central
7	Class 12th Subject/Stream	Science
8	Degree Percentage	75
9	Degree Subject/Stream	Science and Technology
10	Work Experience	Yes
11	AMCAT/Employblity Test Score	86
12	MBA Specialisation	HR and Marketing
13	MBA Percentage	0
14	Salary	25000

Step 4: App Code

app.py: This app.py creates a Flask web application to serve a machine learning model. Users input data through a form, and the code passes this data to the model to make predictions. The results are then displayed on a web page. The pickle library is used to load the pre-trained model, and Flask handles the web interface and routing.

Python3

```
from flask import Flask, render_template, request, redirect, url_for
import numpy as np
import pandas as pd
import pickle

model = pickle.load(open('placement.pkl', 'rb'))
```

```
app = Flask( name )
10
11
   @app.route('/', methods=['GET', 'POST'])
12
   def man():
13
        return render_template('front.html')
14
15
16
   @app.route('/predict', methods=['GET', 'POST'])
17
   def home():
18
        data1 = request.form['id']
19
        data2 = request.form['gender']
20
        data3 = request.form['marks1']
21
        data4 = request.form['boards1']
22
        data5 = request.form['marks2']
23
        data6 = request.form['boards2']
24
        data7 = request.form['strm']
        data8 = request.form['deg p']
26
        data9 = request.form['deg s']
27
        data10 = request.form['wrx']
28
        data11 = request.form['amcat']
29
        data12 = request.form['sp']
30
        data13 = request.form['mba p']
31
        data14 = request.form['sal']
32
33
34
        arr = np.array([[data1, data2, data3, data4, data5, data6, data7, data8,
                          data9, data10, data11, data12, data13, data14]])
35
        pred = model.predict(arr)
36
        return render_template('home.html', data=pred, data1=data1, data2=data2, data3=data2
37
                                data4=data4, data5=data5, data6=data6, data7=data7, data8=da
                                data9=data9, data10=data10, data11=data11, data12=data12,
39
                                data13=data13, data14=data14)
40
41
42
   if __name__ == "__main__":
43
        app.run(debug=True)
```

Step 5: Running the app on local host.

harmProjects\plac> python app.py

Just write "python app.py" on the terminal and this would be generated.

```
* Running on http://127.0.0.1:5000

Press CTRL+C to quit

* Restarting with stat

* Debugger is active!

* Debugger PIN: 662-780-665
```

After that just click on the "http://127.0.0.1:5000" and you would be redirected to a webpage, which would the homepage of the application.

Gender Class 10th Marks Class 10th Boards Class 12th Marks Class 12th Subject/Stream Degree Percentage Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation MBA Percentage	PLACEM	ent predi	CTION		
Gender Class 10th Marks Class 10th Boards Class 12th Marks Class 12th Subject/Stream Degree Percentage Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation MBA Percentage	ust fill the given details and check your ch	nces of gettting placed.			
Gender Class 10th Marks Class 10th Boards Class 12th Marks Class 12th Subject/Stream Degree Percentage Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation MBA Percentage	ill the details.				
Gender Class 10th Marks Class 10th Boards Class 12th Marks Class 12th Subject/Stream Degree Percentage Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation MBA Percentage					
Class 10th Marks Class 12th Marks Class 12th Boards Class 12th Subject/Stream Degree Percentage Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation MBA Percentage	id				
Class 10th Boards Class 12th Marks Class 12th Subject/Stream Degree Percentage Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation M8A Percentage	Gender				
Class 12th Marks Class 12th Boards Class 12th Subject/Stream Degree Percentage Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation MBA Percentage	Class 10th Marks				
Class 12th Boards Class 12th Subject/Stream Degree Percentage Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation MBA Percentage	Class 10th Boards				
Class 12th Subject/Stream Degree Percentage Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation MBA Percentage Salary	Class 12th Marks				
Degree Percentage Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation MBA Percentage Salary	Class 12th Boards				
Degree Subject/Stream Work Experience AMCAT/Employblity Test Score Specialisation MBA Percentage Salary	Class 12th Subject/Stream				
MMCAT/Employblity Test Score Specialisation MBA Percentage Salary	Degree Percentage				
AMCAT/Employblity Test Score Specialisation MBA Percentage Salary	Degree Subject/Stream				
Specialisation MBA Percentage Salary	Work Experience				
MBA Percentage Salary	AMCAT/Employblity Test Score				
Salary	Specialisation				
	MBA Percentage				
	Salary				
predict!	predict!				

app running on local host

After filling all the information click on predict.

Output

RESULT

Congratulations!!!

You have high chances of getting placed

Go back to home page

Index	Information	Value
1	ID	1234
2	Gender	Male
3	Class 10th Marks	92
4	Class 10th Boards	Other
5	Class 12th Marks	85
6	Class 12th Boards	Central
7	Class 12th Subject/Stream	Science
8	Degree Percentage	75
9	Degree Subject/Stream	Science and Technology
10	Work Experience	Yes
11	AMCAT/Employblity Test Score	86
12	MBA Specialisation	HR and Marketing
13	MBA Percentage	0
14	Salary	25000

Final Prediction

And your model is ready to predict.

Video Demonstration

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Practice Tags:

python



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