Project Demonstration


```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Employee Promotion Prediction Using ML</title>
7  </head>
8  <body>
9      <img src="https://c7.alamy.com/comp/TB0R07/employee-in-career-promotion-concept-TB0R07.jpg" alt="Employee Promotion Prediction Using ML">
10 </body>
11 </html>
```

about.html ✕ home.html ✕ predict.html ✕ submit.html ✕

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Employee Promotion Prediction Using ML</title>
7       <style>
8           body {
9               text-align: center;
10              font-family: Arial, sans-serif;
11              background-image: url('https://as1.ftcdn.net/v2/jpg/02/63/95/10/1000_F_263951078_T4C1sHbPL4YVvdZUz6Q2XVqyUUg28anS.jpg'); /* Replace with the actual path */
12              background-size: cover; /* This ensures the image covers the whole background */
13              background-repeat: no-repeat; /* This prevents the image from repeating */
14              background-attachment: fixed; /* This keeps the background image fixed during scroll */
15          }
16          .container {
17              margin: 20px;
18              background-color: rgba(255, 255, 255, 0.8); /* Adding a white background with some transparency for readability */
19              padding: 20px;
20              border-radius: 10px;
21          }
22          .fixed {
23              position: fixed;
24              right: 0;
25              top: 0;
26              width: 260px;
27              border: 3px solid #73AD21;
28              background-color: white; /* Adding a white background to the fixed element */
29              padding: 10px;
30              list-style-type: none; /* Remove the default list styling */
31          }
32          .fixed li {
33              margin: 10px 0; /* Add some margin between the list items */
34          }
35          .fixed a {
36              text-decoration: none;
37              color: #73AD21;
38              font-weight: bold;
39          }
40      </style>
41  </head>
42  <body>
43      <div class="container">
44          <h1>Employee Promotion Prediction Using ML</h1>
45          <ul class="fixed">
46              <li><a href="https://c8.alamy.com/comp/T80R07/employee-in-career-promotion-concept-T80R07.jpg">HOME</a></li>
47              <li><a href="#">ABOUT</a></li>
48          </ul>
49          <p class="a">Promotion or career advancement is a process through which an employee of a company is given a higher share of duties, a higher pay scale, or both. Promotion is not just beneficial
50          <p>To predict your promotion click on the predict button on top of the page</p>
51      </div>
52  </body>
53  </html>
54
55
```

Employee Promotion Prediction Using ML

HOME
ABOUT

Promotion or career advancement is a process through which an employee of a company is given a higher share of duties, a higher pay scale, or both. Promotion is not just beneficial for employees but is also highly crucial for the employer or business owners. It boosts the morale of promoted employees, increases their productivity, and hence improves upon the overall profits earned by the organization. To predict your promotion click on the predict button on the top right side corner.

To predict your promotion click on the predict button on top of the page

```html
1
2   <!DOCTYPE html>
3   <html lang="en">
4   <head>
5       <meta charset="UTF-8">
6       <title>Predict</title>
7       <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
8       <style>
9           body
10          {
11          background-image: url("https://www.incimages.com/uploaded_files/image/1920x1080/getty_920777500_410710.jpg");
12          background-size: cover;
13          }
14          h3.big
15          {
16          line-height: 1.8;
17          }
18      </style>
19  </head>
20  <body>
21      <nav class="navbar navbar-inverse">
22          <div class="container-fluid">
23              <div class="navbar-header">
24                  <a class="navbar-brand">Employee Promotion Prediction Using ML</a>
25              </div>
26              <ul class="nav navbar-nav navbar-right">
27                  <li class="active"><a href="C:/Users/ajay/.spyder-py3/template/predict.html">Predict</a></li>
28              </ul>
29          </div>
30      </nav>
31      <br>
32      <div class="container">
33          <h4>
34          <form action="/predict" method="post" >
35              <div class="form-group row">
36                  <div class="col-md-3">
37                      <label for="department" >Department</label>
38                      <input type="text" class="form-control" name="department" id="department"  required="required"/>
39                  </div>
40              </div>
```

```html
41
42              <div class="form-group mb-3">
43                  <div class="input-group-prepend">
44                      <label class="input-group-text" for="education">Education</label>
45                  </div>
46                  <select class="custom-select" id="education" name="education">
47                      <option value="1">Below Secondary</option>
48                      <option value="2">Bachelor's</option>
49                      <option value="3">Master's & above</option>
50                  </select>
51              </div>
52
53              <div class="form-group row">
54                  <div class="col-md-3">
55                      <label for="no_of_trainings">No of trainings</label>
56                      <input type="text" class="form-control" name="no_of_trainings" id="no_of_trainings"  required="required"/>
57                  </div>
58              </div>
59
60              <div class="form-group row">
61                  <div class="col-md-3">
62                      <label for="age">Age</label>
63                      <input type="text" class="form-control" name="age" id="age" required="required"/>
64                  </div>
65              </div>
66
67              <div class="form-group row">
68                  <div class="col-md-3">
69                      <label for="previous_year_rating">Previous year rating</label>
70                      <input type="text" class="form-control" name="previous_year_rating" id="previous_year_rating" required="required"/>
71                  </div>
72              </div>
73
74              <div class="form-group row">
75                  <div class="col-md-3">
76                      <label for="length_of_service">Length of service</label>
77                      <input type="text" class="form-control" name="length_of_service" id="length_of_service"  required="required"/>
78                  </div>
79              </div>
```

```html
 80
 81            <div class="form-group mb-3">
 82            <div class="input-group-prepend">
 83                <label class="input-group-text" for="KPIs">KPIs_met >80%</label>
 84            </div>
 85              <select class="custom-select" id="KPIs" name="KPIs">
 86                <option value="0">0</option>
 87                <option value="1">1</option>
 88              </select>
 89            </div>
 90
 91            <div class="form-group mb-3">
 92            <div class="input-group-prepend">
 93                <label class="input-group-text" for="awards_won">Awards won</label>
 94            </div>
 95              <select class="custom-select" id="awards_won" name="awards_won">
 96                <option value="0">0</option>
 97                <option value="1">1</option>
 98              </select>
 99            </div>
100
101            <div class="form-group row">
102                <div class="col-md-3">
103                    <label for="avg_training_score">Average training score</label>
104                    <input type="text" class="form-control" name="avg_training_score" id="avg_training_score"  required="require
105                </div>
106            </div>
107            <button type="submit" class="btn btn-success btn-lg">Submit</button>
108        </form>
```

Department

Education
Below Secondary ⌄

No of trainings

Age

Previous year rating

Length of service

KPIs_met >80%
0 ⌄

Awards won
0 ⌄

Average training score

Submit

```
home.html ×    about.html ×    predict.html ×    app.py ×    submit.html* ×

1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <title>Status</title>
6       <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
7       <style>
8           body
9           {
10          background-image: url("https://i0.wp.com/allthingstalent.org/wp-content/uploads/2020/05/Heres-Why-We-Are-100-Sure-You-Need-to-Relook-at-Your-Rewards-Recognition-Program-Longform.jpg?fit=1024%2C5
11          background-color: #cccccc;
12              height: 700px;
13              background-position: center;
14              background-repeat: no-repeat;
15              background-size: cover;
16              position: relative;
17          }
18          h3.big
19          {
20          line-height: 1.8;
21          }
22      </style>
23  </head>
24  <body>
25      <nav class="navbar navbar-inverse">
26          <div class="container-fluid">
27              <div class="navbar-header">
28                  <a class="navbar-brand">Employee Promotion Prediction Using ML</a>
29              </div>
30              <ul class="nav navbar-nav navbar-right">
31                  <li class="active"><a href="C:/Users/ajay/.spyder-py3/template/home">Home</a></li>
32                  <li><a href="C:/Users/ajay/.spyder-py3/template/about.html">About</a></li>
33                  <li><a href="C:/Users/ajay/.spyder-py3/template/predict.html">Predict</a></li>
34              </ul>
35          </div>
36      </nav>
37      <br>
38          <div class="container text-center">
```
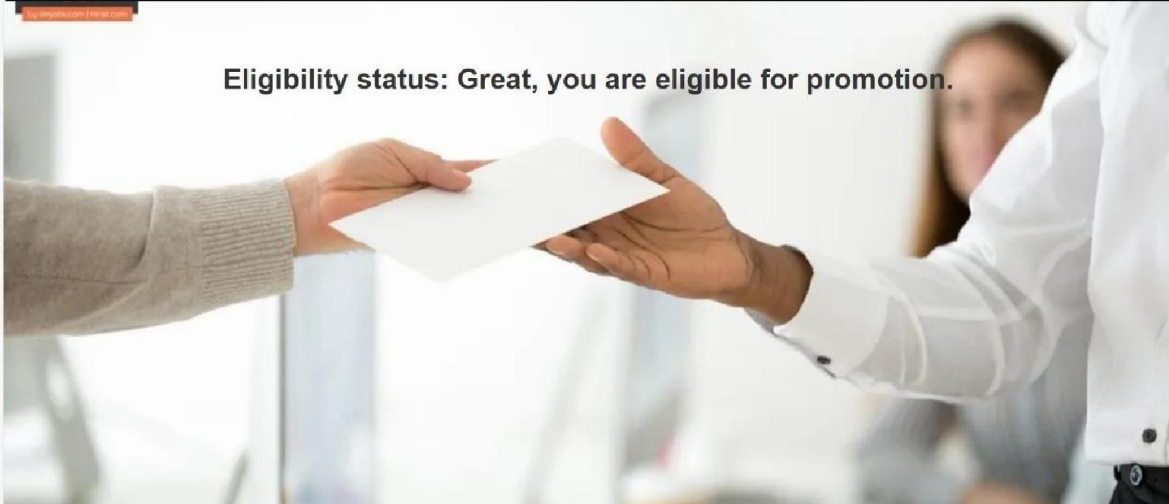
```
39              <br>
40              <h1><b>
41              Eligibility status: {{data}}.
42              </b> </h1>
43          </div>
44
45  </body>
46  </html>
```

```
80
81                <div class="form-group mb-3">
82                <div class="input-group-prepend">
83                    <label class="input-group-text" for="KPIs">KPIs_met >80%</label>
84                </div>
85                 <select class="custom-select" id="KPIs" name="KPIs">
86                   <option value="0">0</option>
87                   <option value="1">1</option>
88                 </select>
89                </div>
90
91                <div class="form-group mb-3">
92                <div class="input-group-prepend">
93                    <label class="input-group-text" for="awards_won">Awards won</label>
94                </div>
95                 <select class="custom-select" id="awards_won" name="awards_won">
96                   <option value="0">0</option>
97                   <option value="1">1</option>
98                 </select>
99                </div>
100
101               <div class="form-group row">
102                  <div class="col-md-3">
103                     <label for="avg_training_score">Average training score</label>
104                     <input type="text" class="form-control" name="avg_training_score" id="avg_training_score" required="required"/>
105                  </div>
106               </div>
107               <button type="submit" class="btn btn-success btn-lg">Submit</button>
108          </form>
109          <br>
110          </h4>
111
112      </div>
113
114      <center>
115 <p style="color:black"> <h1><b>{{data}} </b></h1> </p>
116 </center>
117 </body>
118 </html>
```

```python
import pickle
from flask import Flask,render_template,request

model=pickle.load(open("promotion_model.pkl","rb"))
app = Flask(__name__)


@app.route('/')
def home():
    return render_templates('home.html')
@app.route('/about')
def about():
    return render_templates('about.html')
@app.route('/')
def predict():
    return render_template("predict.html")
@app.route('/predict',methods=['POST'])
def pred():
    d=request.form['department']
    if d=="Sales & Marketing":
        d=7
    elif d=="Operations":
        d=4
    elif d=="Technology":
        d=8
    elif d=="Analytics":
        d=0
    elif d=="R&D":
        d=6
    elif d=="Procurement":
        d=5
    elif d=="Finance":
        d=1
    elif d=="HR":
        d=2
    elif d=="Legal":
        d=3
    education=request.form['education']
```

```python
        if education == '1':
            education = 1

        elif education == '2':

            education = 2

        else:

            education = 3


    no_of_trainings = request.form['no_of_trainings']

    age= request.form['age']

    previous_year_rating = request.form["previous_year_rating"]
    length_of_service = request.form["length_of_service"]

    KPIS= request.form['KPIs']

    if KPIS == '0':

        KPIS = 8

    else:

        KPIs = 1

    awards_won=request.form['awards_won']

    if awards_won == '0': awards_won = 0

    else:

        awards_won = 1

    avg_training_score = request.form['avg_training_score']
```

```python
    total = [[float(d), float(education), float(no_of_trainings), float(age), float(previous_year_rating), float (length_of_service),

            KPIs, awards_won, avg_training_score]]

    prediction = model.predict(total)

    if prediction == 0:

        text = 'Sorry, you are not eligible for promotion'

    else:
        text = 'Great, you are eligible for promotion'
    return render_template("submit.html",data=text)
if __name__ == '__main__' :
    app.run(debug=True)
```