Source code

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<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="style.css" />
    <title>employee promotion prediction using ml</title>
    <style>
        body {
            background: url("static/a.jpg") center;
            height: 100%;
            background-position: center;
            background-size: cover;
            background-repeat: no-repeat;
            position: sticky;
        }
        h1 {
            color: rgb(236, 11, 11);
        }
        .btn {
            margin-top: 20px;
            padding: 3px;
            background-color: azure;
            font-size: larger;
            color: rgb(17, 208, 214);
            cursor: pointer;
        }
        form {
            color: crimson;
            align-content: center;
            text-align: center;
        }
        input {
            margin: 10px 0;
            padding: 5px;
        }
    </style>
</head>
<body>
    <h1>employee promotion prediction using ml </h1>
    <h2 style="color: rgb(76, 245, 14); text-align: center">Let's Predict</h2>
    <div class="inputs">
        <form action="{{ url_for('predict')}}" method="post">
            <label>department</label><br />
            <input type="text" name="department" /><br />
            <label>education</label><br />
            <input type="text" name="education" id="education" list="education" /><br />
            <datalist id="education">
                <option data-value="3">Master's & above</option>
                <option data-value="2">Bachelor's</option>
            </datalist>
            <label>no_of_trainings</label><br />
            <input type="text" name="no_of_trainings"  /><br />
            <label>age</label><br />
            <input type="text" name="age" /><br />
            <label>previous_year_rating</label><br />
            <input type="text" name="previous_year_rating"  /><br />
            <label>length_of_service</label><br />
            <input type="text" name="length_of_service"  /><br />
            <label>KPIs_met >80%</label><br />
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            <input type="text" name="KPIs_met >80%"  /><br />
            <label>awards_won?</label><br />
            <input type="text" name="awards_won?"  /><br />
            <label>avg_training_score</label><br />
            <input type="text" name="avg_training_score"  /><br />
            <button class="btn" type="submit">Predict</button>
        </form>
    </div>

    <br /><br />
    <section>
        <h3 style="color: blueviolet; text-align: center">
            {{ prediction_text }}
        </h3>
    </section>
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    <script>
        document.getElementById('company-name').addEventListener('input', function() {
            var input = this;
            var list = document.getElementById('companies');
            var options = list.childNodes;
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            for (var i = 0; i < options.length; i++) {
                if (options[i].innerText === input.value) {
                    input.value = options[i].getAttribute('data-value');
                    break;
                }
            }
        });
    </script>
</body>
</html>
```

```
<html>
  <head>
    <title>result</title>
    <style>
      body {
        background-color: darkgrey;
      }
      .output {
        padding: 20px;
        border: 1px solid red;
        text-align: center;
        color: rgb(124, 0, 241);
        font-style: italic;
        font-size: larger;
      }
      .result {
        display: block;
        margin-left: auto;
        margin-right: auto;
        width: 50%;
      }
    </style>
  </head>
  <body>
    <h3 class="output">{{ prediction_text }}</h3>
    <img class="result" src="static/s.jpg" alt="prediction" width="200" />
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  </body>
</html>
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```
from flask import Flask,render_template,request
#import joblib
import numpy as np
import pandas as pd
import pickle
app=Flask(__name__)
#model=joblib.load('random_forest_model.pkl')
model=pickle.load(open('model.pkl','rb'))
app=Flask(__name__,template_folder='template')
@app.route('/')
def home():
    return render_template('index.html')
@app.route('/predict', methods=['POST'])
def predict():
   input_feature=[x for x in request.form.values()]
   input_feature=np.transpose(input_feature)
   input_feature=[np.array(input_feature)]
   print(input_feature)
   names=['department', 'education', 'no_of_trainings', 'age',
       'previous_year_rating', 'length_of_service', 'KPIs_met >80%',
       'awards_won?', 'avg_training_score']
   data=pd.DataFrame(input_feature,columns=names)
   prediction=model.predict(data)
   result=int(prediction[0])
   print(result)
   if result==1:
      result='promoted'
   else:
      result='Not promoted'
   return render_template('result.html', prediction_text='The employee is: {}'.format(result))
if __name__=='__main__':
  app.run(debug=True)
```