Save the model

-Application Building

Create an HTML file

Build python code

Problem Definition & Design Thinking

2.1 Empathy map

2.2 ideation & brainstorming map screenshot

Data Collection & Preparation

ML depends heavily on data. It is the most crucial aspect that makes algorithm training possible. So this section allows you to download the required dataset.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Student Placement Prediction</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
<style>
body {font-family: Arial, Helvetica, sans-serif;}
* {box-sizing: border-box;}

input[type=text]
{
  width: 100%;
  padding: 12px;
  border: 1px solid #ccc;
  border-radius: 4px;
  box-sizing: border-box;
  margin-top: 6px;
  margin-bottom: 16px;
  resize: vertical;
}

input[type=submit]
{
```

```
  background-color: #4CAF50;
  color: white;
  padding: 12px 20px;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  width: 230px;

}

input[type=submit]:hover
{
  background-color: #45a049;

}

.container
 {
  border-radius: 5px;
  background-color: #f2f2f2;
  padding: 20px;
  display: flex;
}

.form_wrapper
{
  flex:1;
  text-align: center;
}

.selects
{
  width: 100%;
  padding: 12px;
  border: 1px solid #ccc;
  border-radius: 4px;
  box-sizing: border-box;
  margin-top: 6px;
  margin-bottom: 16px;
  resize: vertical;
}

</style>
</head>
<body>
<div class="container">
  <formaction="/send",name="send_data",method="post">
   <div class="form-group">
```

```
  <label for="gender">Gender</label>
  <select name="gender" class = "selects" >
    <option  value="M">Male</option>
    <option value = "F">Female</option>
  </select>
</div>

    <label>Secondary Education Percentage - 10th Grade</label>
    <input type="text"  name="ssc_p" placeholder="10th grade in percentage">
 <label>Higher Secondary Education Percentage - 12th Grade</label>
    <input type="text" name="hsc_p" placeholder="12th Percentage">
  <div class="form-group">
      <label for="hsc_s1">Specialization in Higher Secondary Education</label>
      <select name="hsc_s1" class = "selects" >
        <option  value="Commerce">Commerce</option>
        <option value = "Science">Science</option>
        <option value = "Others">Others</option>
      </select>
    </div>
    <label>Degree Percentage</label>
    <input type="text" name="degree_p" placeholder="Degree percentage"
     <div class="form-group">
      <label for="degree_t1">Under Graduation(Degree type)- Field of degree
education</label>
      <select name="degree_t1" class = "selects" >
        <option  value="Sci&Tech">Sci&Tech</option>
        <option value= "Comm&Mgmt">Comm&Mgmt</option>
        <option value = "Arts">Arts</option>
      </select>
    </div>

    <div class="form-group">
      <label for="workex1">Work Experience</label>
      <select name="workex1" class = "selects" >
        <option  value="No">No</option>
        <option value = "Yes">Yes</option>
      </select>
    </div>

    <label>Employability test percentage ( conducted by college)</label>
    <input type="text" name="etest_p" placeholder="in percentage">

    <div class="form-group">
      <label for="specialisation1">Specialization</label>
      <select name="specialisation1" class = "selects" >
        <option  value="Mkt&HR">Mkt&HR</option>
        <option value = "Mkt&Fin">Mkt&Fin</option>
      </select>
```

```
    </div>

    <label>MBA Percentage</label>
    <input type="text" name="mba_p" placeholder="In percentage">


    <div class="form_wrapper">
      <input type="submit" value="Submit"/>
    </div>

  </form>


</div>
</body>
</html>



<div class="prediction">
    <h2>Placement Prediction : {{ res }}</h2>

</div>
</body>
</html>



from flask import Flask, render_template, request
import pickle
import pandas as pd
import numpy as np
from sklearn.preprocessing import StandardScaler
from sklearn.pipeline import Pipeline

app = Flask(__name__, template_folder='template')
model_name = open('svm_model.pkl','rb')
svm_model=pickle.load(model_name)


@app.route('/')
def home():
    return render_template("home.html")



@app.route('/send', methods=['GET','POST'])
def predict():
```

```
    if request.method == "POST" :

        Gender = request.form['gender']
        ssc_p = request.form['ssc_p']
        hsc_p = request.form['hsc_p']
        hsc_s = request.form['hsc_s1']
        degree_p = request.form['degree_p']
        degree_t = request.form['degree_t1']
        workex = request.form['workex1']
        etest_p = request.form['etest_p']
        specialisation = request.form['specialisation1']
        mba_p = request.form['mba_p']


        if Gender == 'M':
            gender = 0
        else:
            gender = 1


        if degree_t == 'Sci&Tech':
            degree_t1 = 2
        elif degree_t == 'Comm&Mgmt':
            degree_t1 = 0
        else:
            degree_t1 = 1

        if workex == 'Yes':
            workex1 = 1
        else:
            workex1 = 0

        if hsc_s == 'Commerce':
            hsc_s1 = 1
        elif hsc_s == 'Science':
            hsc_s1 = 2
        else:
            hsc_s1 = 0

        if specialisation == 'Mkt&HR':
            specialisation1 = 1
        else:
            specialisation1 = 0


Pred_args=[gender,ssc_p,hsc_p,hsc_s1,degree_p,degree_t1,workex1,etest_p,specialisation
1,mba_p]
        pred_args=np.array(Pred_args)
```

```
        pred_args=pred_args.reshape(1,-1)

        y_pred=svm_model.predict(pred_args)
        y_pred=y_pred[0]
        if y_pred == 0:
            return render_template('show.html',res="Work Hard!!! Chances are less")
        else:
            return render_template('show.html',res=" You are Doing well!! You Will Get
placements")




if __name__ == '__main__':
    app.run()
```
output:

output:

```
 name: Deploy to Heroku
  uses: AkhileshNS/heroku-deploy@v3.12.12


web: gunicorn app:app
Flask==2.1.1
gunicorn==20.1.0
itsdangerous==2.1.2
Jinja2==3.1.1
MarkupSafe==2.1.1
Werkzeug==2.1.1
numpy>=1.22.3
scipy>=1.8.0
scikit-learn>=1.0.2
matplotlib>=3.5.1
pandas>=1.4.2
streamlit==1.8.1
```