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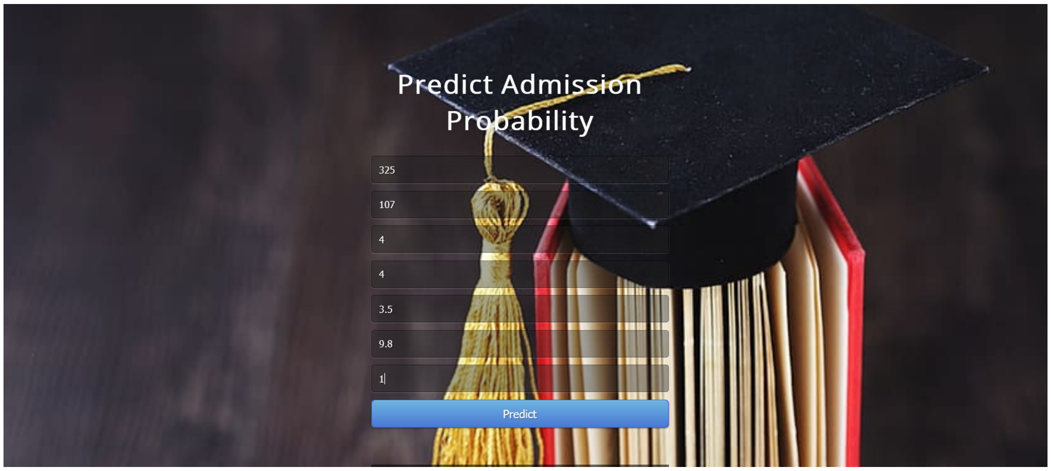
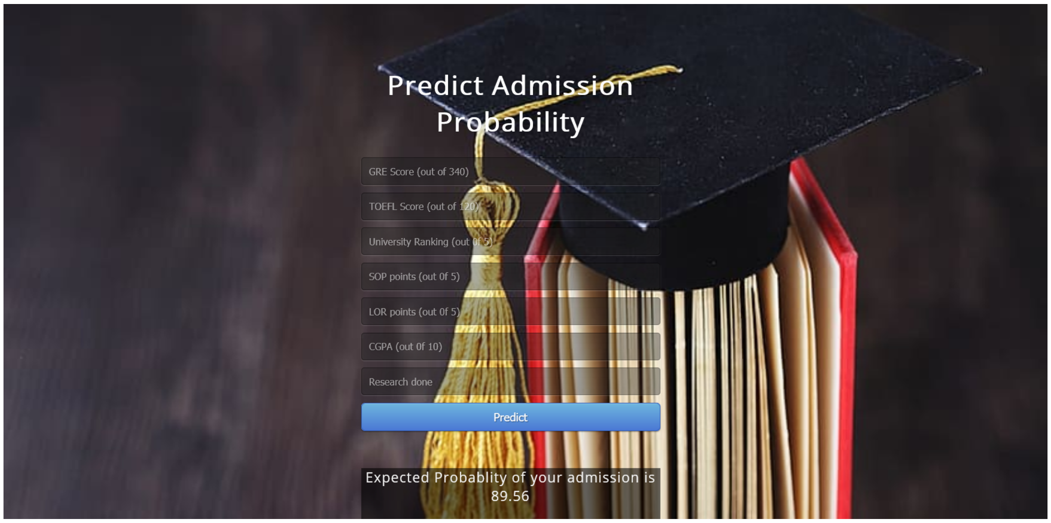
Batch code: LISUM02
Submission date: 15th August 2021
Submitted to:

WEB APPLICATION:



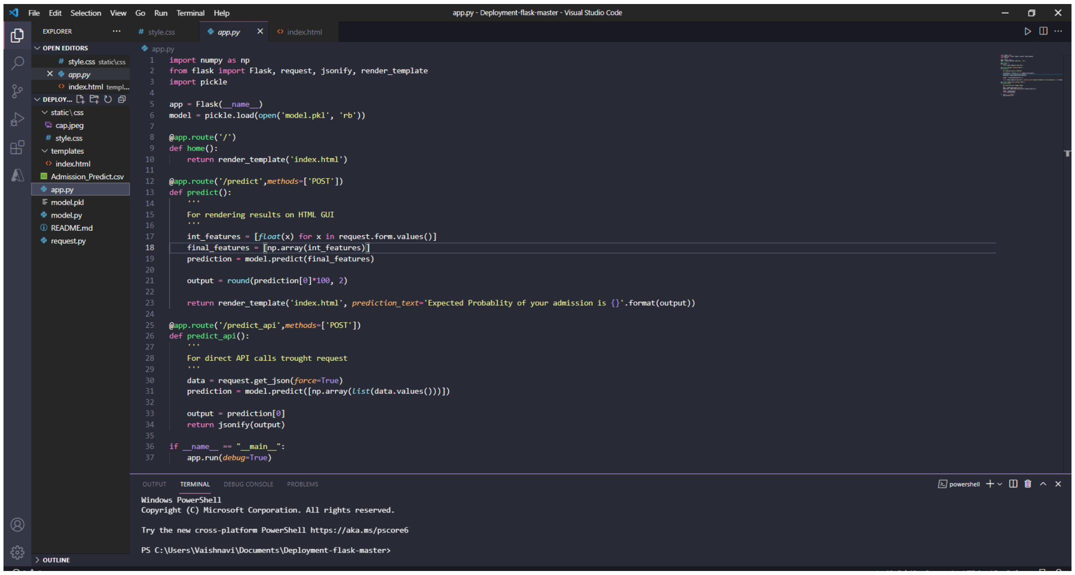
325
107
4
4
3.5
9.8
1



Expected Probablity of your admission is 89.56

GRE (out of 340)
TOEFL (out of 120)
University Rank (out of 5)
SOP (out of 5)
LOR (out of 5)
CGPA (out of 10)
Research

app.py



```python
import numpy as np
from flask import Flask, request, jsonify, render_template
import pickle

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

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

@app.route('/predict',methods=['POST'])
def predict():
    '''
    For rendering results on HTML GUI
    '''
    int_features = [float(x) for x in request.form.values()]
    final_features = [np.array(int_features)]
    prediction = model.predict(final_features)

    output = round(prediction[0]*100, 2)

    return render_template('index.html', prediction_text='Expected Probablity of your admission is {}'.format(output))

@app.route('/predict_api',methods=['POST'])
def predict_api():
    '''
    For direct API calls trought request
    '''
    data = request.get_json(force=True)
    prediction = model.predict([np.array(list(data.values()))])

    output = prediction[0]
    return jsonify(output)

if __name__ == "__main__":
    app.run(debug=True)
```

```
Windows PowerShell
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PS C:\Users\Vaishnavi\Documents\Deployment-flask-master>
```
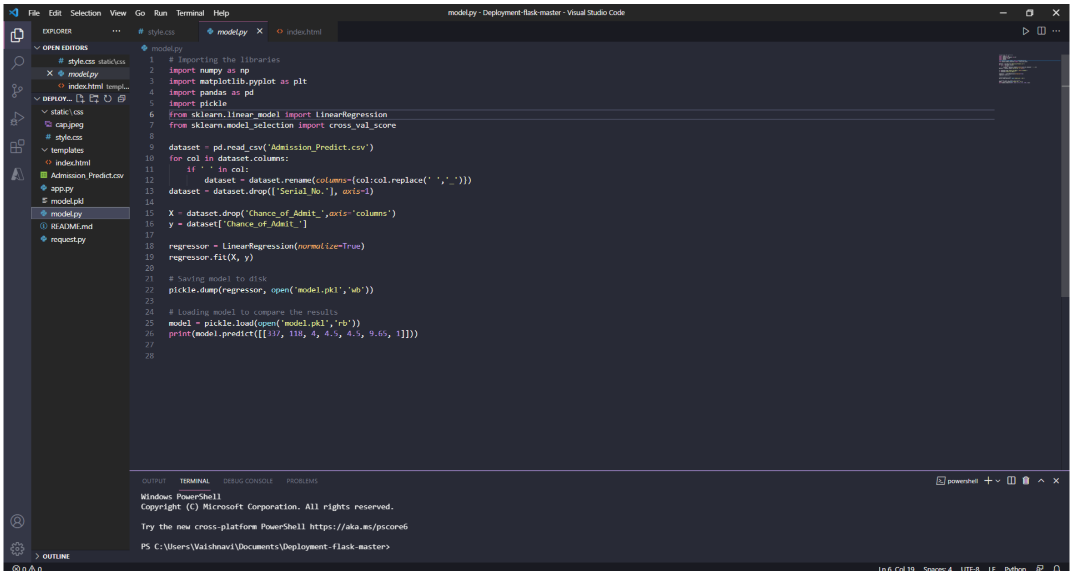

model.py



```python
# Importing the libraries
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import pickle
from sklearn.linear_model import LinearRegression
from sklearn.model_selection import cross_val_score

dataset = pd.read_csv('Admission_Predict.csv')
for col in dataset.columns:
    if ' ' in col:
        dataset = dataset.rename(columns={col:col.replace(' ','_')})
dataset = dataset.drop(['Serial_No.'], axis=1)

X = dataset.drop('Chance_of_Admit_',axis='columns')
y = dataset['Chance_of_Admit_']

regressor = LinearRegression(normalize=True)
regressor.fit(X, y)

# Saving model to disk
pickle.dump(regressor, open('model.pkl','wb'))

# Loading model to compare the results
model = pickle.load(open('model.pkl','rb'))
print(model.predict([[337, 118, 4, 4.5, 4.5, 9.65, 1]]))
```

```
Windows PowerShell
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```
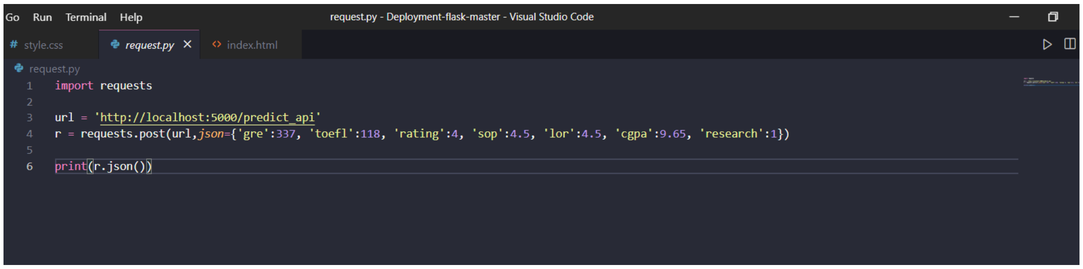

request.py



```python
import requests

url = 'http://localhost:5000/predict_api'
r = requests.post(url,json={'gre':337, 'toefl':118, 'rating':4, 'sop':4.5, 'lor':4.5, 'cgpa':9.65, 'research':1})

print(r.json())
```