

```
1 from flask import Flask, render_template, request,
  redirect, url_for
2 import pandas as pd
3 import numpy as np
4 import xgboost as xgb
5 from tensorflow.keras.models import load_model
6
7 klf = 'C:/Users/srini/PycharmProjects/pythonProject/
  models/Fraud_Detection_Model.keras'
8 lstm = load_model(klf)
9
10 model_filepath = 'C:/Users/srini/PycharmProjects/
  pythonProject/models/xgb_bal_smote_model.bin'
11 clf = xgb.Booster()
12 clf.load_model(model_filepath)
13
14 path = 'C:/Users/srini/PycharmProjects/pythonProject/
  templates'
15 style = 'C:/Users/srini/PycharmProjects/pythonProject
  /static'
16
17 app = Flask(__name__, template_folder=path,
  static_folder=style)
18 global_df = None
19
20
21 @app.route('/')
22 def upload_form():
23     return render_template('upload.html')
24
25
26 @app.route('/upload', methods=['POST'])
27 def upload_file():
28     global global_df
29     file = request.files['file']
30
31     if file.filename == '':
32         return 'No selected file'
33     else:
34         ul = 'C:/Users/srini/PycharmProjects/
  pythonProject/uploads/'
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35         file.save(ul + file.filename)
36         global_df = pd.read_excel(ul + file.filename)
37         global_df.set_index('Transaction_ID', inplace
    =True)
38         return redirect(url_for('t_id'))
39
40
41 @app.route('/t_id')
42 def t_id():
43     return render_template('t_id.html')
44
45
46 @app.route('/predict', methods=['POST'])
47 def predict():
48     global global_df
49     if request.method == 'POST':
50         tid = request.form['message']
51         ch = request.form['choice']
52         row = global_df.loc[tid]
53         message = [float(x) for x in row.values]
54         vect = np.array(message).reshape(1, -1)
55         if ch == 'lstm':
56             my_prediction = lstm.predict(vect)
57         else:
58             my_prediction = clf.predict(xgb.DMatrix(
    vect))
59         return render_template('result.html',
    prediction=my_prediction)
60
61
62 if __name__ == '__main__':
63     app.run(debug=True)
64
```