Name: Amaan Khan

Batch Code: 20240604-01

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Submitted To: LISUM33

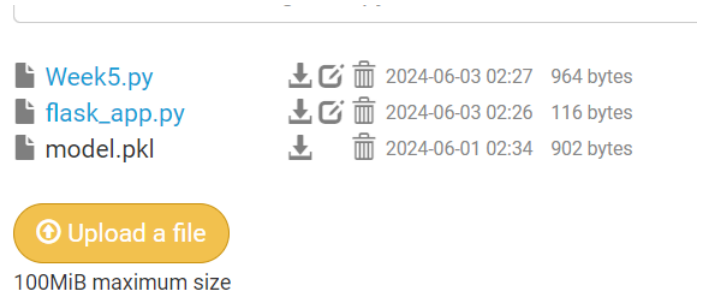
Steps:

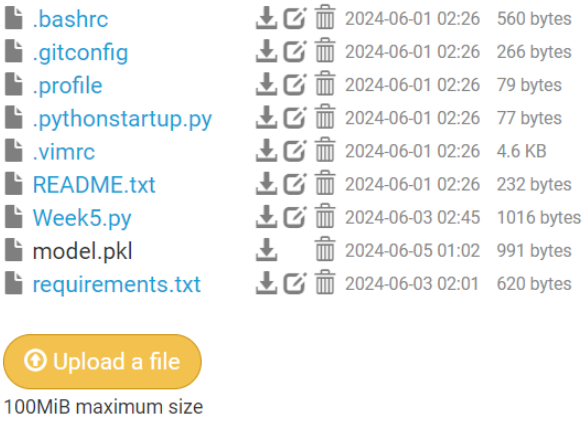
1. Make the code on Pycharm

```python
from flask import Flask, request, jsonify
import joblib
import numpy as np
from sklearn import datasets
import pandas as pd
from sklearn.preprocessing import StandardScaler
from sklearn.linear_model import LogisticRegression


iris = datasets.load_iris()
data = iris.data
target = iris.target


df = pd.DataFrame(data, columns=iris.feature_names)
df['target'] = target


scaler = StandardScaler()
scaled_data = scaler.fit_transform(df.drop(labels 'target', axis=1))


lr = LogisticRegression(max_iter=1000)
lr.fit(scaled_data, df['target'])

joblib.dump(lr, filename 'model.pkl')


model = joblib.load('model.pkl')


app = Flask(__name__)

new *
@app.route( rule: '/', methods=['GET'])
def home():
    return df.to_html()
```

```python
1 usage (1 dynamic)   new *
@app.route( rule: '/predict', methods=['POST'])
def predict():
    data = request.get_json(force=True)
    prediction = model.predict(np.array([data['features']]))
    return jsonify({'prediction': int(prediction[0])})


if __name__ == '__main__':
    app.run(port=5000, debug=True)
```

2. Upload all relevant files onto a pythonanywhere website as they give you a free website to make



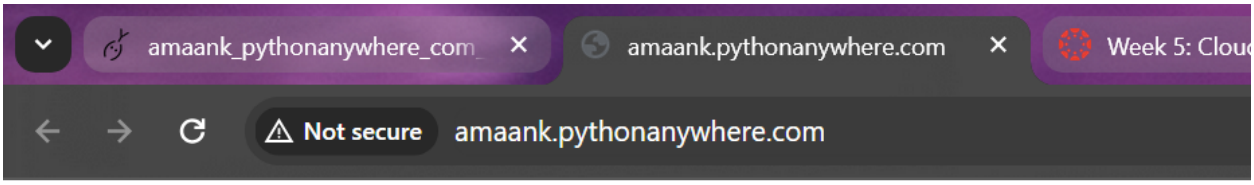


3. Create the WSGI configuration file

/var/www/amaank_pythonanywhere_com_wsgi.py

```
1  # ++++++++++++ FLASK SETTINGS ++++++++++++
2  # Flask settings
3  from Week5 import app as application
```

4. Save everything and load the website:



	sepal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)	target
0	5.1	3.5	1.4	0.2	0
1	4.9	3.0	1.4	0.2	0
2	4.7	3.2	1.3	0.2	0
3	4.6	3.1	1.5	0.2	0
4	5.0	3.6	1.4	0.2	0
5	5.4	3.9	1.7	0.4	0
6	4.6	3.4	1.4	0.3	0
7	5.0	3.4	1.5	0.2	0
8	4.4	2.9	1.4	0.2	0
9	4.9	3.1	1.5	0.1	0
10	5.4	3.7	1.5	0.2	0
11	4.8	3.4	1.6	0.2	0
12	4.8	3.0	1.4	0.1	0
13	4.3	3.0	1.1	0.1	0
14	5.8	4.0	1.2	0.2	0
15	5.7	4.4	1.5	0.4	0
16	5.4	3.9	1.3	0.4	0
17	5.1	3.5	1.4	0.3	0
18	5.7	3.8	1.7	0.3	0

Link to pythonanywhere website: http://amaank.pythonanywhere.com/