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Batch Code: 20240604-01

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Submitted To: LISUM33

Steps:

1. Make the code on Pycharm

```
1 from flask import Flask, request, jsonify
2 import joblib
3 import numpy as np
4 from sklearn import datasets
5 import pandas as pd
6 from sklearn.preprocessing import StandardScaler
7 from sklearn.linear_model import LogisticRegression
8
9
10 iris = datasets.load_iris()
11 data = iris.data
12 target = iris.target
13
14
15 df = pd.DataFrame(data, columns=iris.feature_names)
16 df['target'] = target
17
18
19 scaler = StandardScaler()
20 scaled_data = scaler.fit_transform(df.drop(labels='target', axis=1))
21
22
23 lr = LogisticRegression(max_iter=1000)
24 lr.fit(scaled_data, df['target'])
25
26 joblib.dump(lr, filename='model.pkl')
27
28
29 model = joblib.load('model.pkl')
30
31
32 app = Flask(__name__)
33
34 new *
35 @app.route(rule='/', methods=['GET'])
36 def home():
37     return df.to_html()
```




































```
1 usage (1 dynamic) new *
2 @app.route(rule='/predict', methods=['POST'])
3 def predict():
4     data = request.get_json(force=True)
5     prediction = model.predict(np.array([data['features']]))
6     return jsonify({'prediction': int(prediction[0])})
7
8
9 if __name__ == '__main__':
10     app.run(port=5000, debug=True)
```

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

 Week5.py	  	2024-06-03 02:27	964 bytes
 flask_app.py	  	2024-06-03 02:26	116 bytes
 model.pkl	 	2024-06-01 02:34	902 bytes

 Upload a file


100MiB maximum size

 .bashrc	  	2024-06-01 02:26	560 bytes
 .gitconfig	  	2024-06-01 02:26	266 bytes
 .profile	  	2024-06-01 02:26	79 bytes
 .pythonstartup.py	  	2024-06-01 02:26	77 bytes
 .vimrc	  	2024-06-01 02:26	4.6 KB
 README.txt	  	2024-06-01 02:26	232 bytes
 Week5.py	  	2024-06-03 02:45	1016 bytes
 model.pkl	 	2024-06-05 01:02	991 bytes
 requirements.txt	  	2024-06-03 02:01	620 bytes

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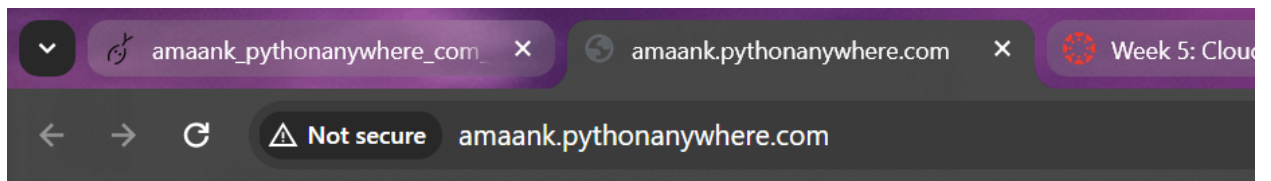
100MiB maximum size

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/>