Name: Week 4: Data Intake on API

Report date: 1/9/2022

Internship Batch: LISUM16

Version: 1.0

Data intake by: Olivia Foster Data intake reviewer: Data Glacier

Data storage location: https://github.com/LiviaNFoster/Week4-5

Data:

The data was pulled from a toy data set from the famous Iris dataset.

Total number of observations	150
Total number of files	1
Total number of features	5
Base format of the file	csv
Size of the data	3,975 bytes

Model.py:

```
| insert | i
```

app.py:

```
import numpy as np
import pickle

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

@app.route('/', methods=['GET'])

@app.route('/', methods=['GET'])

@app.route('/predict', methods=['POST'])

def fnome():

app.route('/predict', methods=['POST'])

def predict():

"""

int_features = np.array([float(x) for x in request.form.values()])
final_features = [np.array(int_features)]
prediction = round(model.predict(final_features)[8])

print(prediction)

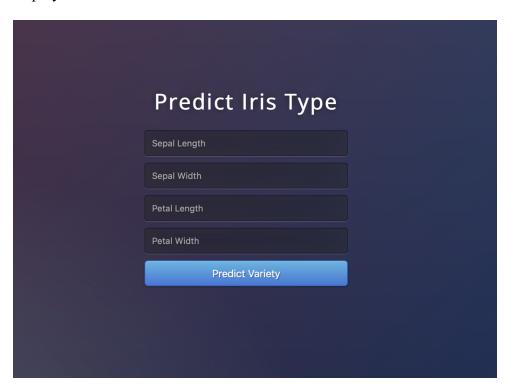
if prediction < 0.5:
    return render_template("iris.html", prediction_text='Iris Variety should be Setosa'.format(prediction))
elif (prediction >= 0.5) and (prediction < 1.5):
    return render_template("iris.html", prediction_text='Iris Variety should be Versicolor'.format(prediction))
else:
    return render_template("iris.html", prediction_text='Iris Variety should be Versicolor'.format(prediction))

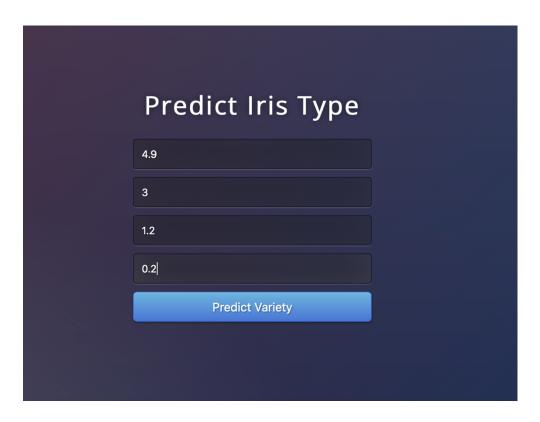
if name_ == "__main__":
    app.run(port=5000, debug=True)</pre>
```

iris.html:

```
<!DOCTYPE html>
   <title>ML API</title>
   <link href = 'https://fonts.googleapis.com/css?family=Pacifico' rel = 'stylesheet' type ='text/css'>
   <link href = 'https://fonts.googleapis.com/css?family=Arimo' rel = 'stylesheet' type ='text/css'>
   <link href = 'https://fonts.googleapis.com/css?family=Hind:300' rel = 'stylesheet' type ='text/css'>
   <link rel = "stylesheet" type ="text/css" href ="{{ url_for('static', filename ='css/scratch.css') }}">
</head>
<body>
<div class = "login">
   <h1> Predict Iris Type </h1>
   <form action="{{ url_for('predict')}}" method="post">
       <input type="text" name="sepal.length" placeholder="Sepal Length" required="required"/>
       <input type="text" name="sepal.width" placeholder="Sepal Width" required="required"/>
   </form>
{ prediction_text }}
</body>
</html>
```

Deployment:





Predict Iris Type

Sepal Length

Sepal Width

Petal Length

Petal Width

Predict Variety

Iris Variety should be Setosa

