Loading the Iris dataset and creating the XGBoosting Model, then save the model into a pickle file



Creating the index.html (landing page)

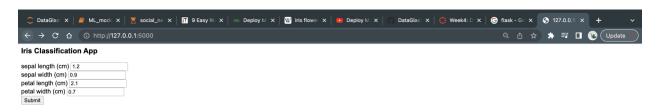
```
<html>
<body>
   <h3>Iris Classification App</h3>
<div>
 <form action="/result" method="POST">
   <label for="">sepal length (cm)</label>
   <input type="text" id="sepal_length" name="sepal_length">
   <label for="sepal width (cm)">sepal width (cm)</label>
   <input type="text" id="sepal_width" name="sepal_width">
   <label for="petal length (cm)">petal length (cm)</label>
   <input type="text" id="petal_length" name="petal_length">
   <br>
   <label for="petal width (cm)">petal width (cm)</label>
   <input type="text" id="petal_width" name="petal_width">
   <br>
   <input type="submit" value="Submit">
  </form>
</div>
</body>
```

Creating result page

Creating app.py using flask framework

```
from flask import Flask,request,jsonify,render_template
import pickle
app = Flask(__name__)
model = pickle.load(open("xgb_model.pkl","rb"))
@app.route("/")
def Home():
    return render_template("form.html")
@app.route("/result", methods=['POST'])
def result():
    if request.method == 'POST':
        features = [num for num in request.form.values()]
        final_features = [[float(num) for num in features]]
        prediction = model.predict(final_features)
        types = ""
        if prediction[0] == 0:
            types = "Setosa"
        elif prediction[0] == 1:
            types = "Versicolour"
            types = "Virginica"
        return render_template('result.html',prediction = "based on your result, the Iris type is {}".format(ty
    __name__: str
if __name__ == "__main__":
    app.run(debug = True)
```

Index page working properly



Result page working properly



based on your result, the Iris type is Virginica

