Name: Ovuowo Rukevwe Batch code: LISUM11: 30

Submission date: 8/20/2022

Submitted to: <a href="https://myirisdataset.herokuapp.com">https://myirisdataset.herokuapp.com</a>

Github Repo: Ovuowo-Rukevwe/Iris-Data (github.com)

```
app.pv > ...
  from flask import Flask, render_template,url_for,request
from flask_material import Material
      #EDA PKg
      import pandas as pd
      import numpy as np
      import sklearn.externals
      import joblib
      app = Flask(__name__)
      Material(app)
      @app.route('/')
      def index():
        return render_template("index.html")
      @app.route('/preview')
      def preview():
           df = pd.read_csv('data/iris ds.csv')
           return render_template("preview.html", df_view=df)
      @app.route('/analyze', methods=['POST'])
      def analyze():
          if request.method == 'POST':
              petal_length = request.form['petal_length']
sepal_length = request.form['sepal_length']
               petal_width = request.form['petal_width']
```

```
> preview.html M
                        app.py 1, M X
                                            index.html M
 🕏 app.py > ...
        @app.route('/analyze', methods=['POST'])
        def analyze():
              if request.method == 'POST':
                  petal_length = request.form['petal_length']
                  sepal_length = request.form['sepal_length']
                  petal_width = request.form['petal_width']
                  sepal_width = request.form['sepal_width']
                  arr = np.array([[sepal_length,sepal_width,petal_length,petal_width]])
                  #change from unicode to float
                  svm model = joblib.load('data/model joblib')
                  result_prediction = svm_model.predict(arr)
             return render_template("index.html", petal_width=petal_width,
                  sepal_width=sepal_width,
                  sepal_length=sepal_length,
                  petal_length=petal_length,
                  svm model=svm model,
                  result_prediction=result_prediction,
        if __name__=='__main__':
            app.run(debug=True)
                 app.py 1, M
                                o index.html M X
templates > 💠 index.html > 🔗 section.section.section-signup > 🚱 div.container > 🚱 div.row > 🚱 div.col.s12.m4 > 🚱 div.card-panel.grey.lig
     {% extends "material/base.html" %}
      {% block content %}
      <div class="showcase container white-text blue lighten-3">
          <div class="row"
                <h2>Iris Species predictor</h2>
                 ML WEB APP
                <a href="{{url_for('index')}}" class="btn btn-small blue white-text waves-effect waves-d</pre>
                <a href="{{url_for('preview')}}}" class="btn btn-small white blue-text waves-effect waves</pre>
      <section class="section section-signup">
             <div class="row":
                     <div class="card-panel grey lighten-4 grey-text text-darken-4 z-depth-0">
 20
                         <form method="POST" action="{{url_for('analyze')}}">
                            <div class="input-field"</pre>
                                <input type="range" min="4" max="8" step="0.1" value="0" name="sepal_len</pre>
                                <label>sepal_length</label>
                            <div class="input-field">
                                <input type="range" min="2" max="5" step="0.1" value="0" name="sepal_wid
<label>sepal_width</label>
```

```
index.html M X
templates 🗦 🗘 index.html > 🥱 section.section.section-signup > 🚱 div.container > 🚱 div.row > 🔗 div.col.s12.m4 > 😭 div.card-panel.grey.ligl
                                <input type="range" min="2" max="5" step="0.1" value="0" name="sepal_wid</pre>
                                <label>sepal_width</label>
                                <input type="range" min="0" max="7" step="0.1" value="0" name="petal_len</pre>
                                 <label>petal_length</label>
                                <input type="range" min="0" max="8" step="0.1" value="0" name="petal_wid</pre>
                                <label>petal_width</label>
                             <button type="submit" value="Predict" class="btn btn-small white blue-text w</pre>
 48
                     <div class="card-panel blue lighten-4 grey-text text-darken-4 z-depth-0">
                         Sepal Length: {{ sepal_length }}
                         Sepal_width: {{ sepal_width }}
                        Petal_length: {{ petal_length }}
                         p>petal_width: {{ petal_width }}
                                    o index.html M X
                    app.py 1, M
 templates > 🥴 index.html > 🤣 section.section.section-signup > 🤣 div.container > 🤣 div.row > 🚱 div.col.s12.m4 > 🚱 div.card-panel.grey.lig
                    <div class="col s12 m4 offers">
                        <h5>Prediction</h5>
                        <div class="collection" role="alert">
                           Predicted result {{ result_prediction }}
                        <div class="card-image waves-effect waves-block waves-light">
                            {% if result_prediction == 0 %}
                            <h5>setosa</h5>
                            <img src="static/imgs/iris setosa.jfif" width="200px" height="200px">
                            {% elif result_prediction == 1 %}
                            <h5>versicolor</h5>
                            <img src="static/imgs/iris versicolor.jfif" width="200px" height="200px">
                            {% elif result_prediction == 2 %}
                            <h5>virginica</h5>
                            <img src="static/imgs/iris virginica.jfif" width="200px" height="200px">
                            {% else %}
                            {% endif %}
```

# Iris Species predictor

ML WEB APF

BACK

	sepal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)	target	flower names
0	5.1	3.5	1.4	0.2	0	setosa
1	4.9	3.0	1.4	0.2	0	setosa
2	4.7	3.2	1.3	0.2	0	setosa
3	4.6	3.1	1.5	0.2	0	setosa
4	5.0	3.6	1.4	0.2	0	setosa
5	5.4	3.9	1.7	0.4	0	setosa
6	4.6	3.4	1.4	0.3	0	setosa

# Iris Species predictor

ML WEB APP

**RESET** 

VIEW DATASET



Sepal Length: 4.4
Sepal\_width: 3.9
Petal\_length: 0
petal\_width: 2.4

### Prediction

Predicted result [0

#### setosa



## Iris Species predictor

ML WEB APP

RESET

**VIEW DATASET** 



Sepal Length: 4
Sepal\_width: 3.9
Petal\_length: 2.2
petal\_width: 6.4

#### Prediction

Predicted result [2]

### virginica



## Iris Species predictor

ML WEB APP

RESET

VIEW DATASET



Sepal Length: 4.8

Sepal\_width: 4.1

Petal\_length: 4

petal\_width: 2.5

#### Prediction

Predicted result [1]

#### versicolor

