IRIS FLOWER DETECTION

I chose iris flower data set to work with and make a ML application . For this week we have deployed our app with the help of flask framework .

Steps:

1. Set Flask environement	
	cd myproject
	python3 -m venv envi
	envi\Scripts\activate
⇒ Installing Flask	
□ nin install Flask	

2. Prepare Data:

```
df = pd.read_csv('iris.data')
print(df)
```

```
X = np.array(df.iloc[:, 0:4])
y = np.array(df.iloc[:, 4:])

from sklearn.preprocessing import LabelEncoder
le = LabelEncoder()
y = le.fit_transform(y.reshape(-1))

from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2)

from sklearn.svm import SVC
sv = SVC(kernel='linear').fit(X_train_xy_train)
```

Saving model using pickle

```
pickle.dump(sv, open('iri.pkl', 'wb'))
| iri.pkl 8/12/2022 9:38 PM PKL File 3 KB
```

3. Creating main application:

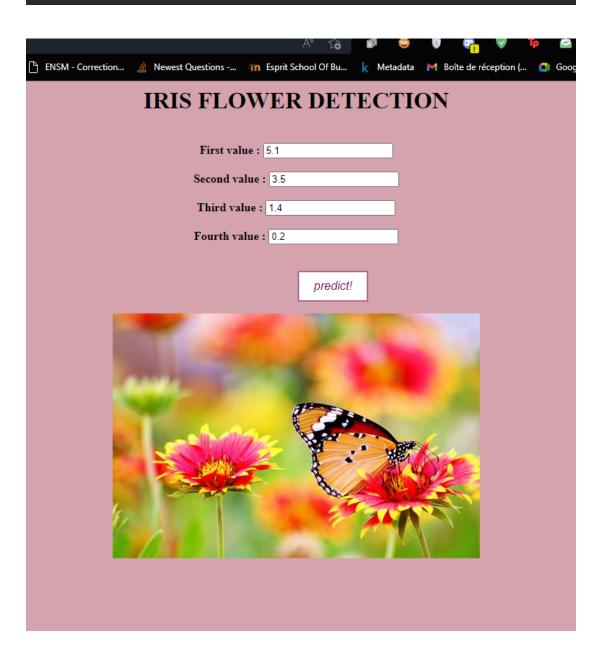
```
idef home():
    data1 = request.form['a']
    data2 = request.form['b']
    data3 = request.form['c']
    data4 = request.form['d']
    arr = np.array([[data1, data2, data3, data4]])
    pred = model.predict(arr)
    return render_template('after.html', data=pred)

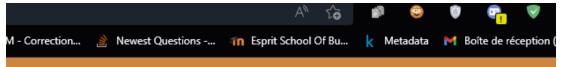
if __name__ == "__main__":
    app.run(debug=True)
```

4. templates and pictures:

5. Running our application:

```
FLASK_APP = app.py
FLASK_ENV = development
FLASK_DEBUG = 0
In folder C:/Users/raoue/myproject
C:\Users\raoue\myproject\myenvi\Scripts\python.exe -m flask run
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://127.0.0.1:5000
```





PREDICTION:

Iris-setosa



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