# Data Glacier

Deployment on Flask

Name : Mohamad Eyad Abras

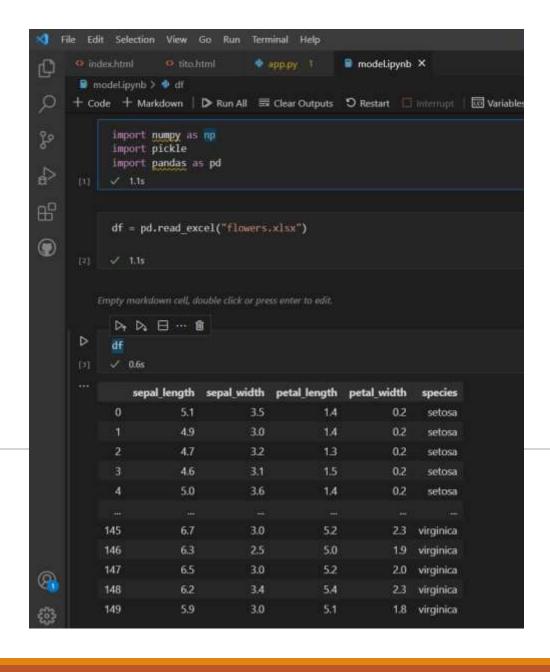
Batch Code: LISUM12

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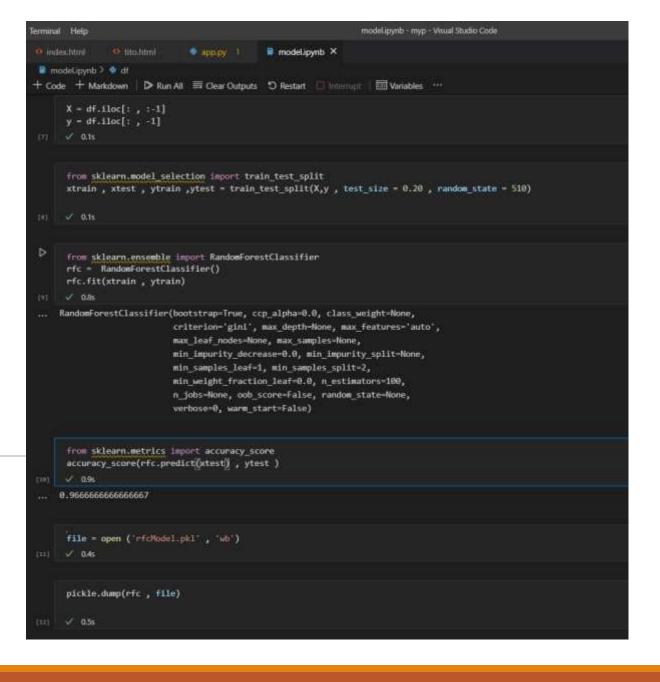
### Step #1:

Getting the data and preparing the model (flowers classification Model)



### Step #2:

Finishing and Pickling the Model (in this case the model is Random Forest Classifier)



#### Step #3:

Preparing the HTML file for rendering

```
index.html - myp - Visual Studio Code
erminal Help
 index.html × 💮 tito.html
                             app.py 1
                                            model.ipynb
templates > ♥ index.html > ♥ html > ♥ body#home > ♥ div#home > ♥ form > ♥ div
      <!DOCTYPE html>
      <html lang="en">
      <head id = "test">
          <h1 id = "test">Welcome!!</h1>
          <meta charset="UTF-8">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Document</title>
      <body id = "home">
          <div id="home">
              <form action="{{ url_for('predict')}}" method="post">
                  <h3> Enter the sepal length </h3><input id="fieldo" name="sepal length" required="required "><br>
                  <h3> Enter the sepal width/h3><input id="fieldo" name="sepal_width" required="required">
                  <h3>Enter the petal length/h3><input id="fieldo" name="petal_length" required="required">
                  <h3>Enter the petal width</h3><input id="fieldo" name="petal width" required="required">
                     <h3 id = 'test'>{{ prediction text }}<h3>
              <div id ='test' >
                 <form action="{{ url for('About')}}" method="post">
                         <button type="submit">{{ info_f }} </button>
      #fieldo {
          border-radius: 14px;
          font-size: 20px;
```



Loading the Model from the .pkl files :

```
app = Flask(__name__)
model = pickle.load(open('rfcModel.pkl' , 'rb'))
@app.route('/',methods=['GET'])
def Home():
    return render_template('index.html')
```

Step #4:

Working with flask:

Preparing the home page with Flask:

```
@app.route('/',methods=['GET'])
def Home():
    return render_template('index.html')
```

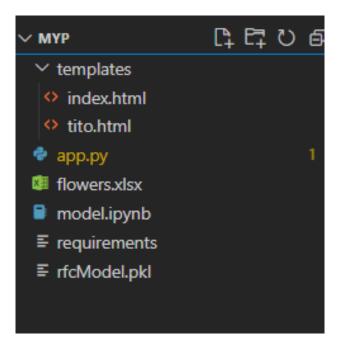
Adding the main function of the app (predict):

```
@app.route('/predict', methods = ['POST', 'GET'])
def predict():
   if request.method == 'POST':
       sepal_length = float(request.form['sepal_length'])
       sepal_width=float(request.form['sepal_width'])
       petal length = float(request.form['petal length'])
       petal_width=float(request.form['petal_width'])
       prediction=model.predict([[sepal_length ,sepal_width , petal_length, petal_width ]])
       if prediction ==0:
               return render_template('index.html',prediction_text="it's Setosa", info_f = "more about Setosa ?")
       elif prediction == 1:
               return render_template('index.html',prediction_text="it's Versicolor", info_f = "more about Versicolor?")
       elif prediction == 2:
               return render_template('index.html',prediction_text="it's Virginica", info_f = "more about Virginica ?")
               return render_template('index.html',prediction_text="hata olustu")
       return render_template('index.html')
```

Step #5:

launching

Now that we have all the required files



We are ready to launch



#### Step #6:

Activating the virtual environment and running the app

#### Running the App.py file

```
Anaconda Prompt (anaconda3)
(base) C:\Users\HP>cd desktop/myp
(base) C:\Users\HP\Desktop\myp>activate myenv
(myenv) C:\Users\HP\Desktop\myp>dir
 Volume in drive C has no label.
 Volume Serial Number is F4AB-AAB0
 Directory of C:\Users\HP\Desktop\myp
08/08/2021 10:40 AM
                       <DIR>
08/08/2021 10:40 AM
08/08/2021 03:23 PM
                                1,506 app.py
08/08/2021 12:55 AM
                               13,442 flowers.xlsx
                               13,781 model.ipynb
08/08/2021 10:53 AM
                                   23 Procfile
08/08/2021 10:40 AM
                              158,792 rfcModel.pkl
08/08/2021 10:49 AM
08/08/2021 12:13 PM
                       <DIR>
                                      templates
                               187,544 bytes
              5 File(s)
              3 Dir(s) 44,225,155,072 bytes free
(myenv) C:\Users\HP\Desktop\myp>python app.py
 * Serving Flask app 'app' (lazy loading)
 * Environment: production
  Use a production WSGI server instead.
 * Debug mode: on
  Restarting with watchdog (windowsapi)
 * Debugger is active!
```

It's ready to classify

## Welcome!!

Enter the sepal length

Enter the sepal width

Enter the petal length

Enter the petal width

what is the flower type

It's Setosa!!

