

Deployment on Flask Report

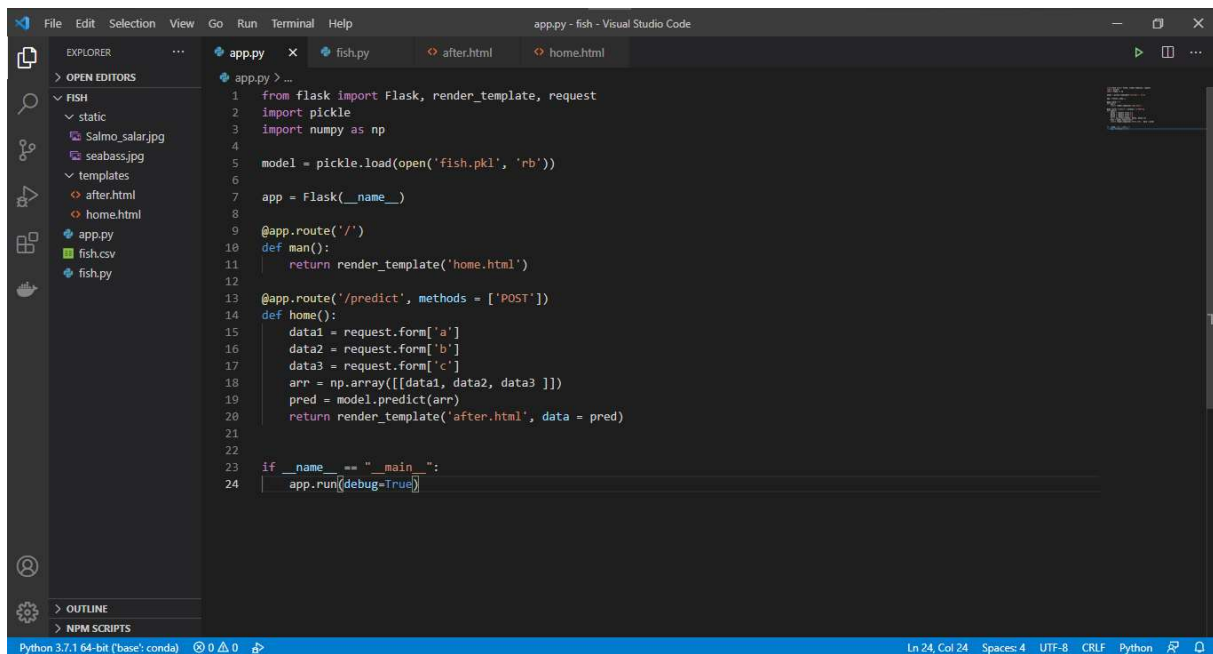
Name: Deployment on Flask

Submission date: 23.03.2021

Internship Batch: LISP01

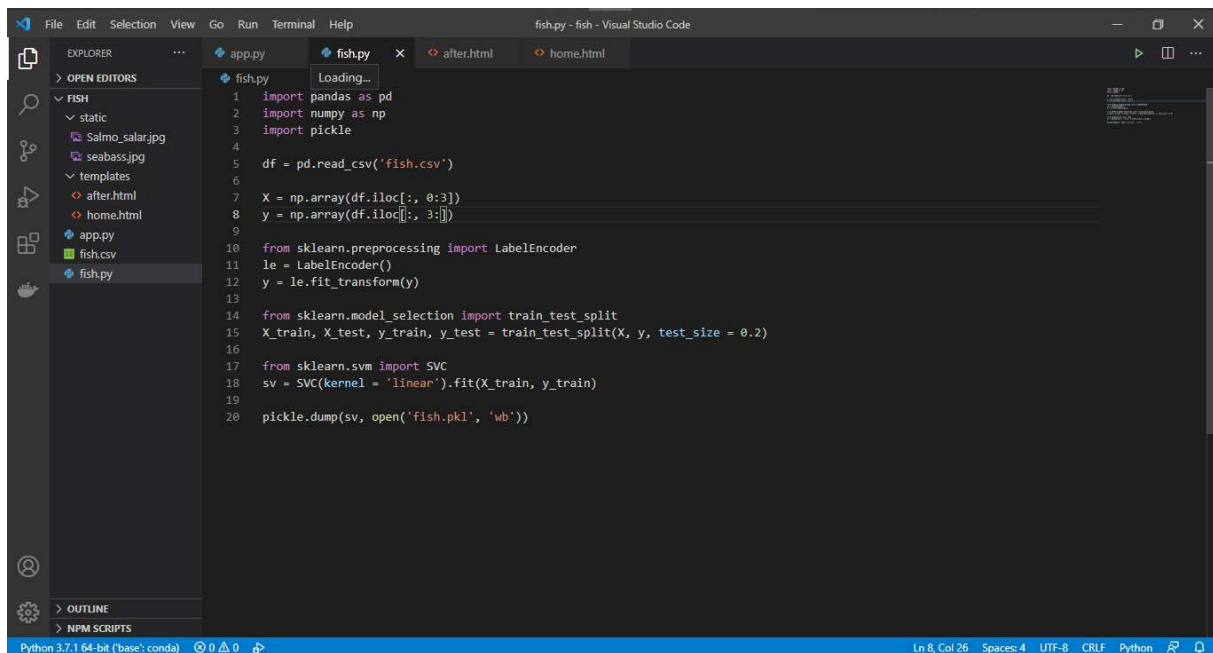
Version: 1.0

Sender: Buse Gungor



```
1 from flask import Flask, render_template, request
2 import pickle
3 import numpy as np
4
5 model = pickle.load(open('fish.pkl', 'rb'))
6
7 app = Flask(__name__)
8
9 @app.route('/')
10 def man():
11     return render_template('home.html')
12
13 @app.route('/predict', methods = ['POST'])
14 def home():
15     data1 = request.form['a']
16     data2 = request.form['b']
17     data3 = request.form['c']
18     arr = np.array([[data1, data2, data3 ]])
19     pred = model.predict(arr)
20     return render_template('after.html', data = pred)
21
22
23 if __name__ == "__main__":
24     app.run(debug=True)
```

Figure 2 The main program to run which is app.py



```
1 import pandas as pd
2 import numpy as np
3 import pickle
4
5 df = pd.read_csv('fish.csv')
6
7 X = np.array(df.iloc[:, 0:3])
8 y = np.array(df.iloc[:, 3:])
9
10 from sklearn.preprocessing import LabelEncoder
11 le = LabelEncoder()
12 y = le.fit_transform(y)
13
14 from sklearn.model_selection import train_test_split
15 X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.2)
16
17 from sklearn.svm import SVC
18 sv = SVC(kernel = 'linear').fit(X_train, y_train)
19
20 pickle.dump(sv, open('fish.pkl', 'wb'))
```

Figure 1 Linear model for fish dataset which is fish.py

```

1 <html>
2   <body bgcolor=d4a3ae>
3     <center>
4       <h1>FISH DETECTION</h1><br>
5       <form method="POST", action="{{url_for('home')}}">
6         <b>First value : <input type="text", name="a", placeholder="enter 1"><br><br>
7         Second value : <input type="text", name="b", placeholder="enter 2"><br><br>
8         Third value : <input type="text", name="c", placeholder="enter3"><br><br><br></b>
9         <input type="submit", value="predict!">
10      </form>
11    </center>
12    
13  </body>
14 </html>

```

Figure 4 The html code for the design of the home page that is home.html

```

1 <html>
2   <body bgcolor=#a3cfb4>
3     <center>
4       <h1> PREDICTION : </h1>
5       {%if data == - 0%}
6       <h1>Fish-saloman</h1>
7       
8     {%else%}
9     <h1>Fish-seabass</h1>
10    
11  {%endif%}
12  <br><br>
13  <a href="/">go back to home page</a>
14 </center>
15 </body>
16 </html>

```

Figure 3 The html code for the page design after input values are entered that is after.html

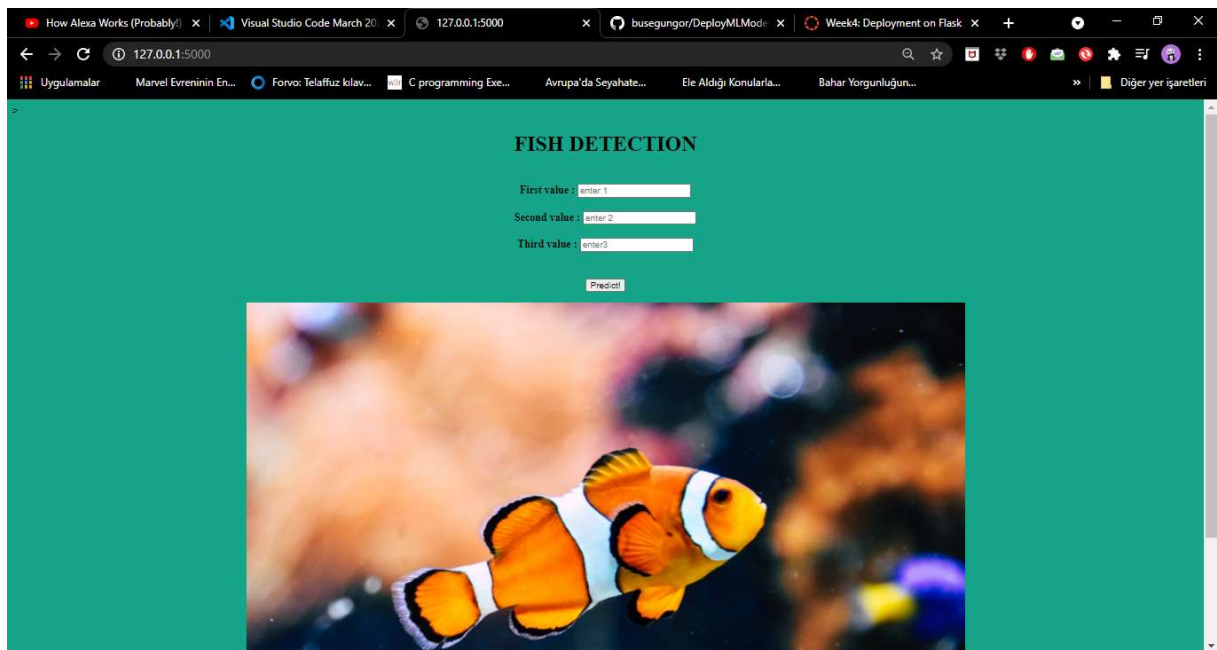


Figure 5 Main interface

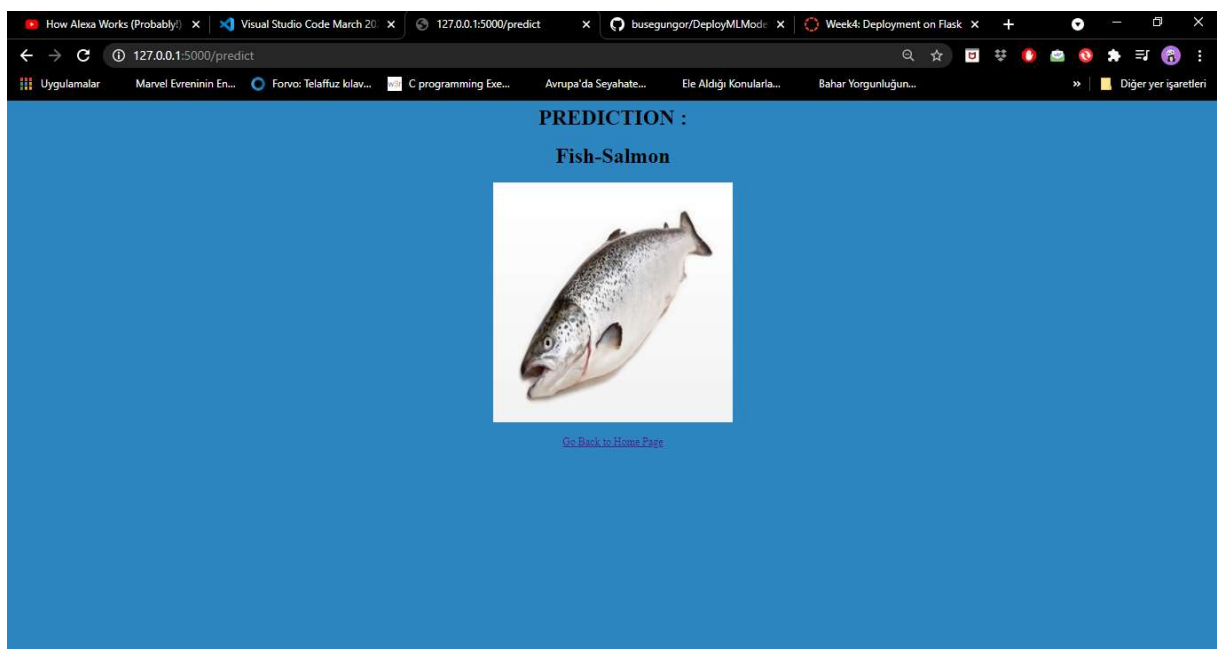


Figure 6 After the prediction

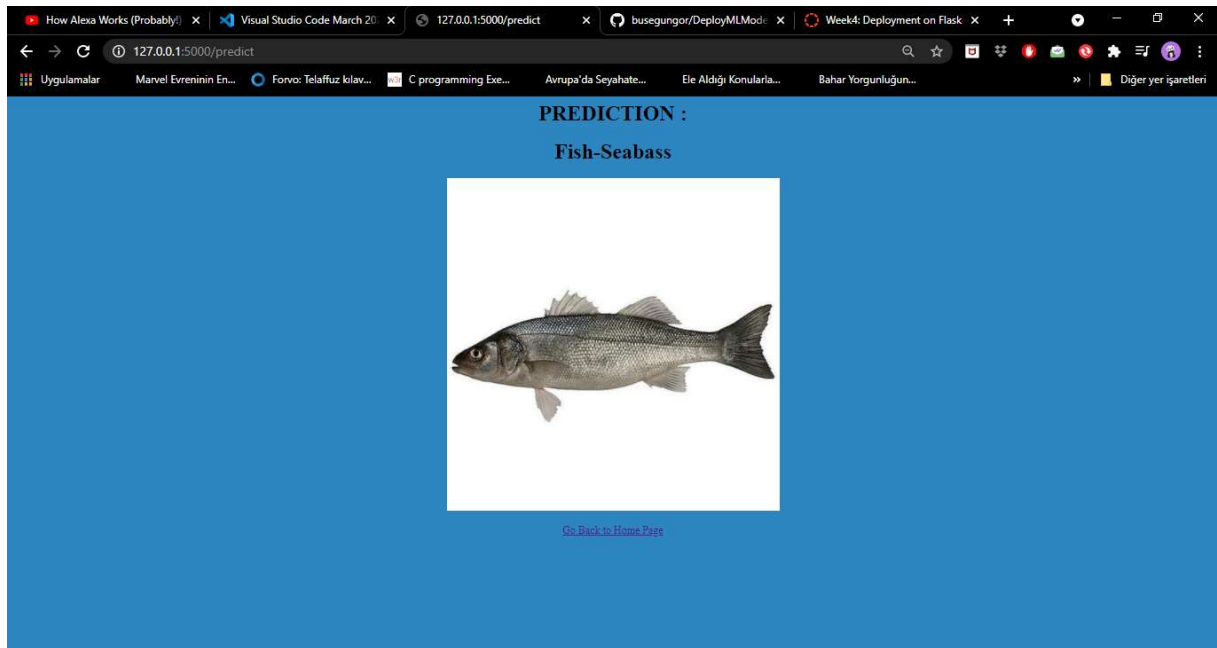


Figure 7 After the prediction

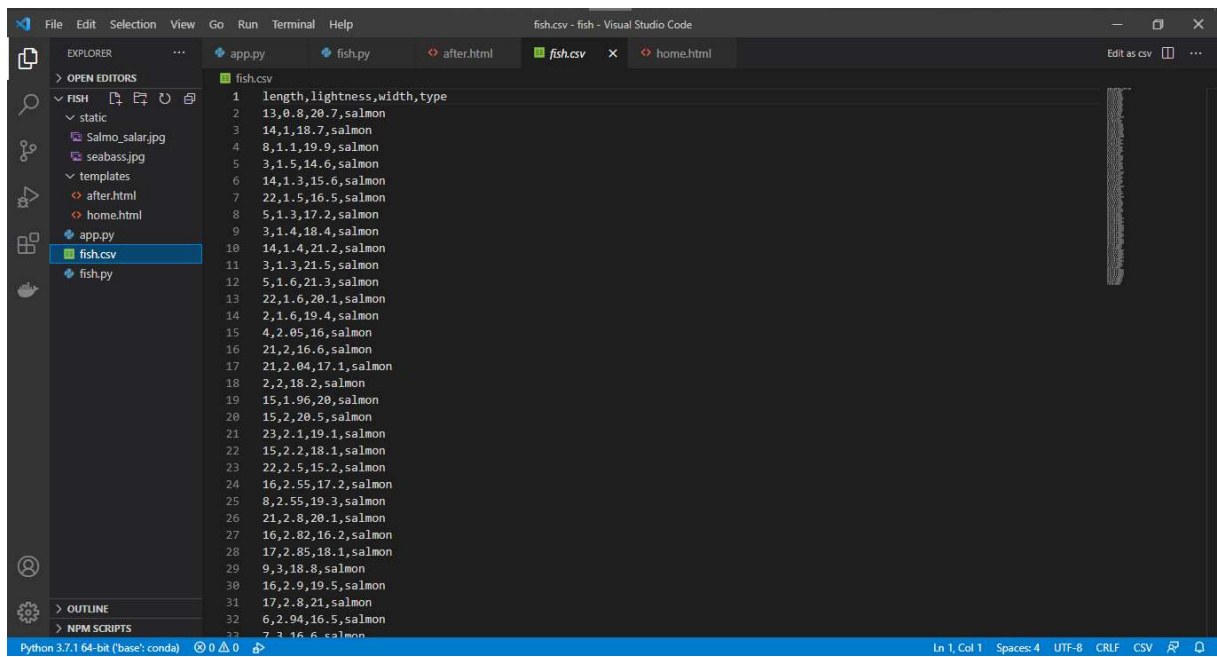


Figure 8 fish.csv