

NAME: BOLUTIFE AKINLAWON

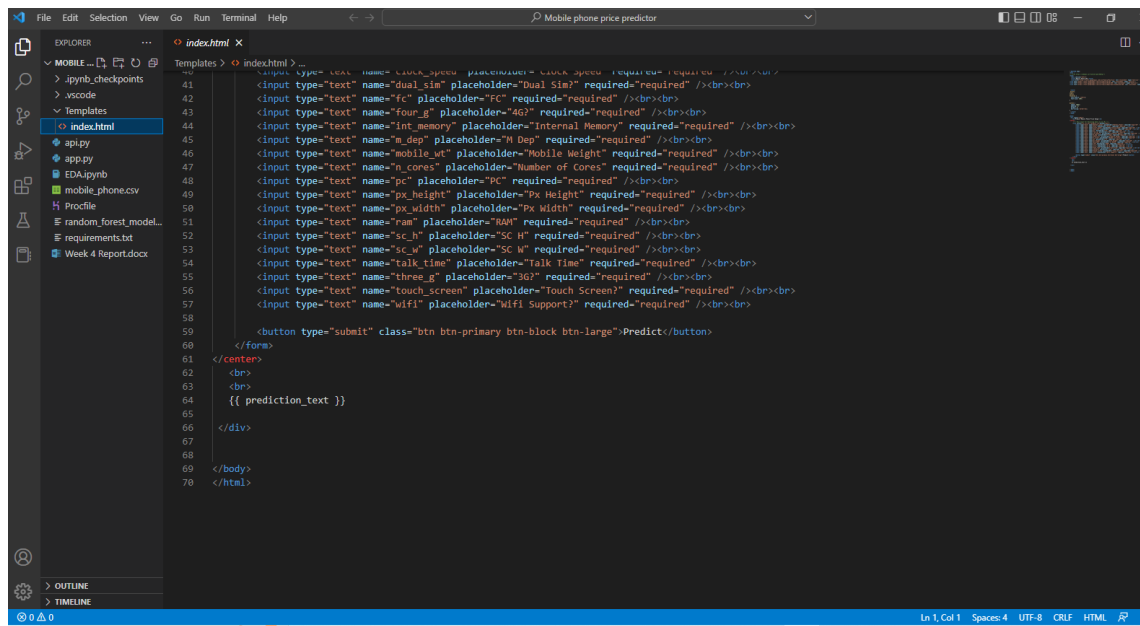
BATCH CODE: LISUM14

SUBMISSION DATE: 10/11/2022

SUBMITTED TO: GITHUB

HEROKU DEPLOYMENT

Building the web form to accept inputs



```
File Edit Selection View Go Run Terminal Help Mobile phone price predictor
EXPLORER
MOBILE ...
  .jupyter_checkpoints
  .vscode
  Templates
  index.html
  api.py
  app.py
  EDA.ipynb
  mobile_phone.csv
  Profile
  random_forest_model...
  requirements.txt
  Week 4 Report.docx
index.html
41 <input type="text" name="dual_sim" placeholder="Dual Sim?" required="required" /><br><br>
42 <input type="text" name="fc" placeholder="FC" required="required" /><br><br>
43 <input type="text" name="four_g" placeholder="4G?" required="required" /><br><br>
44 <input type="text" name="int_memory" placeholder="Internal Memory" required="required" /><br><br>
45 <input type="text" name="m_dep" placeholder="M Dep" required="required" /><br><br>
46 <input type="text" name="mobile_wt" placeholder="Mobile Weight" required="required" /><br><br>
47 <input type="text" name="n_cores" placeholder="Number of Cores" required="required" /><br><br>
48 <input type="text" name="pc" placeholder="Pc" required="required" /><br><br>
49 <input type="text" name="px_height" placeholder="Px Height" required="required" /><br><br>
50 <input type="text" name="px_width" placeholder="Px Width" required="required" /><br><br>
51 <input type="text" name="ram" placeholder="RAM" required="required" /><br><br>
52 <input type="text" name="sc_h" placeholder="SC H" required="required" /><br><br>
53 <input type="text" name="sc_w" placeholder="SC W" required="required" /><br><br>
54 <input type="text" name="talk_time" placeholder="Talk time" required="required" /><br><br>
55 <input type="text" name="three_g" placeholder="3G?" required="required" /><br><br>
56 <input type="text" name="touch_screen" placeholder="Touch Screen?" required="required" /><br><br>
57 <input type="text" name="wifi" placeholder="Wifi Support?" required="required" /><br><br>
58
59 <button type="submit" class="btn btn-primary btn-block btn-large">Predict</button>
60 </form>
61 </center>
62 <br>
63 <br>
64 {{ prediction_text }}
65
66 </div>
67
68 </body>
69 </html>
70
```

The screenshot shows the Visual Studio Code editor with the 'index.html' file open. The Explorer sidebar on the left shows a project structure with files like 'mobile_phone.csv', 'requirements.txt', and 'Week 4 Report.docx'. The main editor area displays the HTML code for the 'Mobile Phone Price Predictor' web application. The code includes a meta charset, title, and links to Google Fonts (Pacifico, Arimo, Hind, and Open Sans Condensed). It also contains CSS styles for a login form with a button and a text input. The body contains a heading 'Predict Mobile Phone Price Range' and a form with a main input for the query and a submit button.

```
1 <DOCTYPE html>
2 <html>
3 <!-- From https://codepen.io/frytyler/pen/EGdtg-->
4 <head>
5   <meta charset="UTF-8">
6   <title>Mobile Phone API</title>
7   <link href="https://fonts.googleapis.com/css?family=Pacifico" rel="stylesheet" type="text/css">
8   <link href="https://fonts.googleapis.com/css?family=Arimo" rel="stylesheet" type="text/css">
9   <link href="https://fonts.googleapis.com/css?family=Hind:300" rel="stylesheet" type="text/css">
10  <link href="https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300" rel="stylesheet" type="text/css">
11
12
13
14  <style>
15    button,
16    input,
17    select,
18    textarea {
19      font-family: inherit;
20      font-size: 100%;
21    }
22
23    button {
24      width: 150px;
25      padding: 0;
26      margin: 0;
27      box-sizing: border-box;
28    }
29  </style>
30 </head>
31
32 <body>
33   <div class="login">
34     <h1>Predict Mobile Phone Price Range</h1>
35   <center>
36     <!-- Main Input For Receiving Query to our ML -->
37     <form action="{ url_for('predict') }" method="post">
38       <input type="text" name="battery_power" placeholder="Battery Power" required="required" /><br><br>
39       <input type="text" name="blue" placeholder="Blue?" required="required" /><br><br>
```

Building the API

The screenshot shows the Visual Studio Code editor with the 'app.py' file open. The Explorer sidebar on the left shows a project structure with files like 'mobile_phone.csv', 'requirements.txt', and 'Week 4 Report.docx'. The main editor area displays the Python code for the Flask application. The code imports Flask, request, jsonify, render_template, pickle, and numpy. It defines a Flask app, loads a pickle model, and sets up routes for the home page and the prediction endpoint. The prediction endpoint uses the loaded model to predict the price range based on the input features.

```
1 from flask import Flask, request, jsonify, render_template
2 import pickle
3 import json
4 import numpy as np
5
6
7 app = Flask(__name__)
8 model = pickle.load(open('random_forest_model.pkl', 'rb'))
9
10 @app.route('/')
11
12 def home():
13     return render_template('index.html')
14
15 @app.route('/predict', methods = ['POST'])
16 def predict():
17     """
18     For rendering results on HTML GUI
19     """
20     None,
21
22     """
23
24     int features = [int(x) for x in request.form.values()]
25     final_features = [np.array(int_features)]
26     prediction = model.predict(final_features)
27
28     output = round(prediction[0], 2)
29
30     return render_template('index.html', prediction_text = 'Price range should be'.format(output))
31
32
33
34 if __name__ == "__main__":
35     app.run(debug = True)
```

Localhost deployment

JobServe - Home

127.0.0.1:5000/predict

FC

4G?

Internal Memory

M Dep

Mobile Weight

Number of Cores

PC

Px Height

Px Width

RAM

SC H

SC W

Talk Time

3G?

Touch Screen?

Wifi Support?

Predict

Price range should be

Predict Mobile Phone Price Range

Battery Power

Blue?

Clock Speed

Dual Sim?

FC

4G?

Internal Memory

M Dep

Mobile Weight

Number of Cores

PC

Px Height

Px Width

RAM

SC H

SC W

Heroku Deployment

dashboard:heroku.com/apps/phone-price-prediction/deploy/github

JobServe - Home

Salesforce Platform

HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more](#).

Choose a branch to deploy

main

Deploy Branch

Receive code from GitHub

Build main c5cfbd6c

Downloading scipy-1.9.3-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (33.7 MB)

Collecting cycler>=0.10

Downloading cycler-0.11.0-py3-none-any.whl (6.4 kB)

Collecting kxiosolver>=1.0.1

Downloading kxiosolver-1.4.4-cp310-cp310-manylinux_2_12_x86_64.manylinux2010_x86_64.whl (1.6 MB)

Collecting pyparsing>=2.2.1

Downloading pyparsing-3.0.9-py3-none-any.whl (98 kB)

Collecting retrying>=1.3.3

Downloading retrying-1.3.3-py3-none-any.whl (10 kB)

Autoscroll with output

[View build log](#)

Release phase

Deploy to Heroku

heroku.com Blogs Careers Documentation Support

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dashboard:heroku.com/apps/phone-price-prediction/deploy/github

JobServe - Home

Salesforce Platform

HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

Personal > phone-price-prediction

GitHub BoluAkinlawon/Data-Glacier-Week-4-and-5

Open app

More

Overview Resources Deploy Metrics Activity Access Settings

Add this app to a pipeline

Create a new pipeline or choose an existing one and add this app to a stage in it.

Add this app to a stage in a pipeline to enable additional features

Pipelines let you connect multiple apps together and promote code between them. [Learn more](#)

Pipelines connected to GitHub can enable review apps, and create apps for new pull requests. [Learn more](#)

Choose a pipeline

Deployment method

Heroku Git

Use Heroku CLI

GitHub

Connected

Container Registry

Use Heroku CLI

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to BoluAkinlawon/Data-Glacier-Week-4-and-5 by BoluAkinlawon

Disconnect...

Releases in the [activity feed](#) link to GitHub to view commit diffs