Name: Ian Beller
Batch code: LISMU09
Submission date: June 10th 2022
Submitted to: github

Files

app copy.py	Today at 12:31 PM	687 bytes	Python Source
model copy.py	Jun 8, 2022 at 3:07 PM	599 bytes	Python Source
requirements.txt	Today at 12:33 PM	190 bytes	Plain Text
static	Today at 12:27 PM	--	Folder
static-20220614T172722Z-001.zip	Today at 12:28 PM	10 KB	ZIP archive
store_lst.pkl	Today at 12:31 PM	480 bytes	Document
store_lst.pkl copy	Jun 8, 2022 at 3:07 PM	480 bytes	Document
Stores copy.csv	Apr 29, 2022 at 11:10 AM	23 KB	comma...d values
templates copy	Today at 12:23 PM	--	Folder

Requirement text

```
1   Flask==1.1.1
2   gunicorn==19.9.0
3   itsdangerous==1.1.0
4   Jinja2==2.10.1
5   MarkupSafe==1.1.1
6   Werkzeug==0.15.5
7   numpy>=1.9.2
8   scipy>=0.15.1
9   scikit-learn>=0.18
10  matplotlib>=1.4.3
11  pandas>=0.19
12
13
```

HTML code

/Users/ianbeller/Desktop/Data_Glacier/Week 5/templates copy/index(2).html

Tabs: × model copy.py × app copy.py × index(2).html × requirements.txt

```html
1  <!DOCTYPE html>
2  <html >
3  <head>
4    <meta charset="UTF-8">
5    <title>ML API</title>
6    <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
7  <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
8  <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
9  <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'>
10 <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
11
12 </head>
13
14 <body>
15  <div class="login">
16     <h1>Predict Store Sales</h1>
17
18        <!-- Main Input For Receiving Query to our ML -->
19     <form action="{{ url_for('predict')}}"method="post">
20         <input type="text" name="Items_Available" placeholder="Number of items available in the store" required="required" />
21         <input type="text" name="Daily_Customers" placeholder="Number of daily customers in the store" required="required" />
22
23         <button type="submit" class="btn btn-primary btn-block btn-large">Predict</button>
24     </form>
25
26    <br>
27    <br>
28    {{ prediction_text }}
29
30  </div>
31  <img src="/static/images/Original.svg" style="width: 400px;position: absolute;bottom: 10px;left: 10px;" alt="Company Logo"/>
32
33 </body>
34 </html>
```

App code

/Users/ianbeller/Desktop/Data_Glacier/Week 5/app copy.py

Tabs: × model copy.py × app copy.py × index(2).html × requirements.txt

```python
1  import numpy as np
2  from flask import Flask, request,render_template
3  import pickle
4
5  app = Flask(__name__)
6  model = pickle.load(open('store_lst.pkl copy', 'rb'))
7
8  @app.route('/')
9  def home():
10     return render_template('index(2).html')
11
12 @app.route('/predict',methods=['POST'])
13 def predict():
14     '''
15     For rendering results on HTML GUI
16     '''
17     int_features = [int(x) for x in request.form.values()]
18     final_features = [np.array(int_features)]
19     prediction = model.predict(final_features)
20
21     output = round(prediction[0], 2)
22
23     return render_template('index(2).html', prediction_text='Store sales should be {}'.format(output))
24
25 if __name__ == "__main__":
26     app.run(debug=True)
```

Model code

/Users/ianbeller/Desktop/Data_Glacier/Week 5/model copy.py

| × model copy.py | × app copy.py | × index(2).html | × requirements.txt |

```python
import numpy as np
import pandas as pd
import pickle

st = pd.read_csv('Stores copy.csv')
stores = st.rename(columns = {'Daily_Customer_Count': 'Daily_Customers',
                              'Store_Sales': 'Sales'})

X = stores.iloc[:, 2:4]
y = stores.iloc[:, -1]

from sklearn.linear_model import LinearRegression
regressor = LinearRegression()

#Fitting model with trainig data
regressor.fit(X, y)

# Saving model to disk
pickle.dump(regressor, open('store_lst.pkl','wb'))

# Loading model to compare the results
model = pickle.load(open('store_lst.pkl','rb'))
print((model.predict([[10, 1]])))
```

Repository

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🔗 **Week-5-Heroku-demo**

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README.md   ✏

Week-5-Heroku-demo

Heroku account

Linking Heroku to GitHub

Personal ⌄ > heroku-demo-app-2   ☆   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
Connect to GitHub

Container Registry
Use Heroku CLI

Connect to GitHub

Connect this app to GitHub to enable code
diffs and deploys.

Search for a repository to connect to

🏠 Basondo   ⬍   repo-name   Search

Missing a GitHub organization? Ensure Heroku Dashboard has team access.

HEROKU   Jump to Favorites, Apps, Pipelines, Spaces…   ⠿ 🔵

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apps**, and create apps for new pull requests.
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🐙 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 🔲 Basondo/Week-5-Heroku-demo by 🏠 Basondo   Disconnect...

⟜ Releases in the activity feed link to GitHub to view commit diffs

Deploying ML app in Heroku

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** 8081cba8   ✓

Release phase   ✓

Deploy to Heroku   ✓

Your app was successfully deployed.

⬀ View

Web deployment

Predict Store Sales

| 10 | | 1 | | Predict |

House price should be $ 48610.68