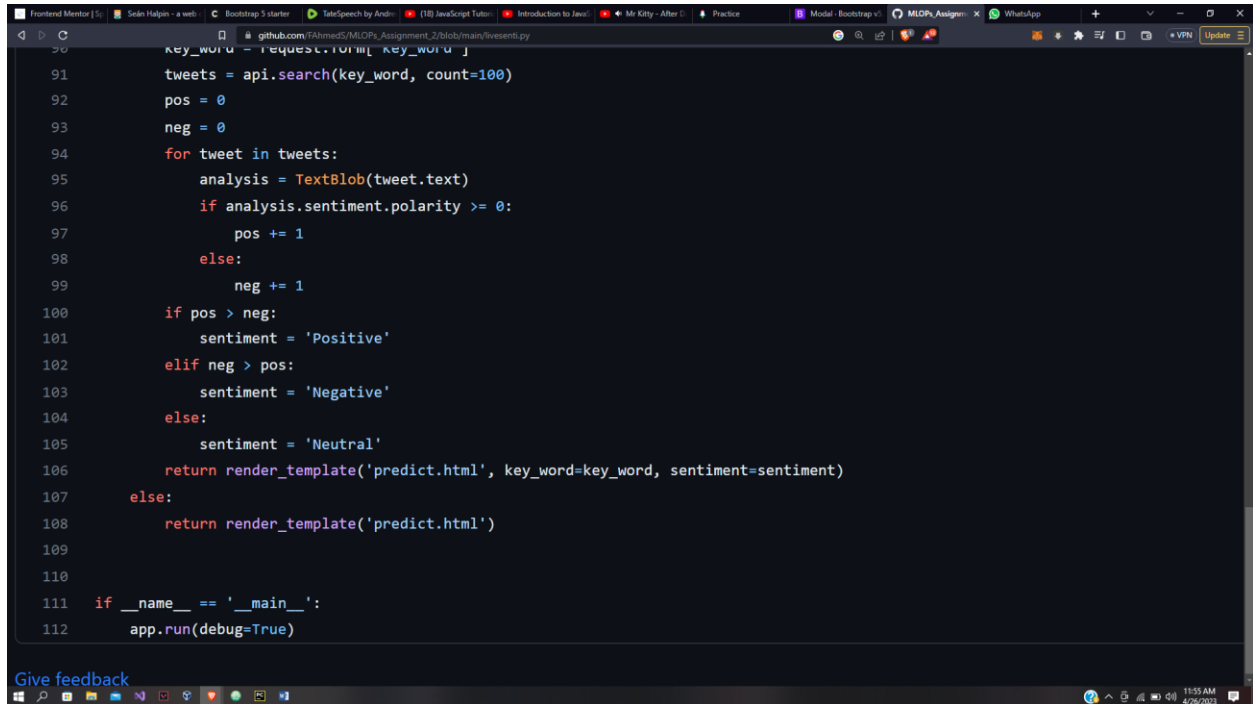


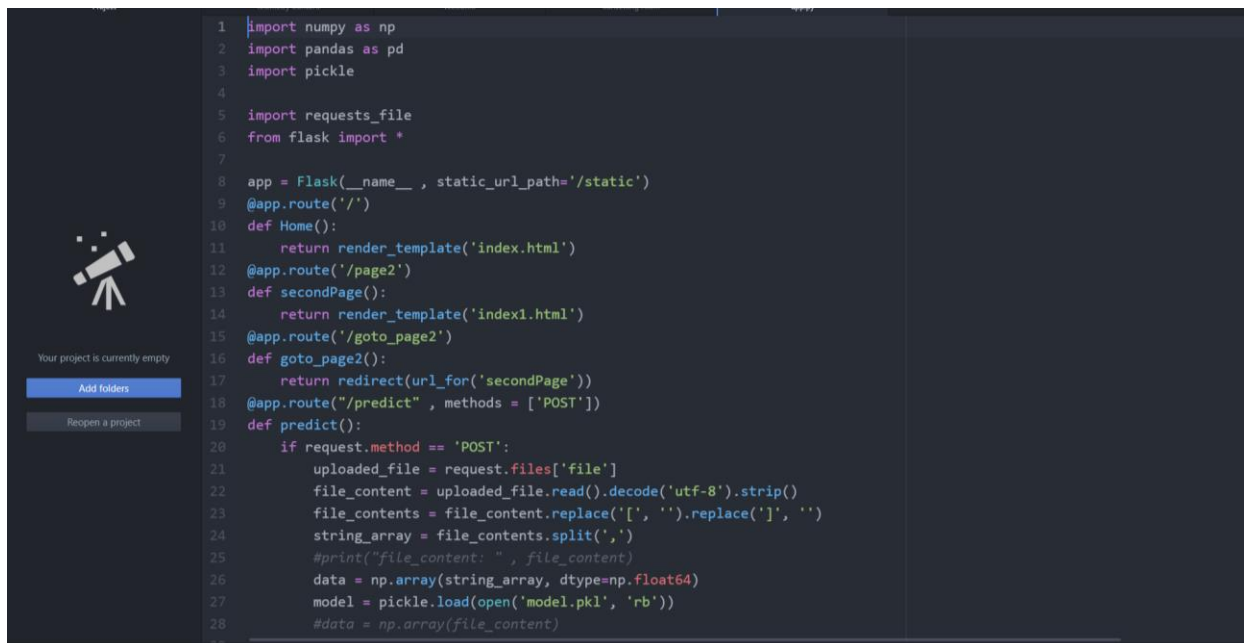
# Steps:

1. Created simple sentiment analysis model in python.



```
key_word = request.form['key_word']
91 tweets = api.search(key_word, count=100)
92 pos = 0
93 neg = 0
94 for tweet in tweets:
95     analysis = TextBlob(tweet.text)
96     if analysis.sentiment.polarity >= 0:
97         pos += 1
98     else:
99         neg += 1
100 if pos > neg:
101     sentiment = 'Positive'
102 elif neg > pos:
103     sentiment = 'Negative'
104 else:
105     sentiment = 'Neutral'
106 return render_template('predict.html', key_word=key_word, sentiment=sentiment)
107 else:
108     return render_template('predict.html')
109
110
111 if __name__ == '__main__':
112     app.run(debug=True)
```

2. Flask application.



```
1 import numpy as np
2 import pandas as pd
3 import pickle
4
5 import requests_file
6 from flask import *
7
8 app = Flask(__name__, static_url_path='/static')
9 @app.route('/')
10 def Home():
11     return render_template('index.html')
12 @app.route('/page2')
13 def secondPage():
14     return render_template('index1.html')
15 @app.route('/goto_page2')
16 def goto_page2():
17     return redirect(url_for('secondPage'))
18 @app.route("/predict", methods = ['POST'])
19 def predict():
20     if request.method == 'POST':
21         uploaded_file = request.files['file']
22         file_content = uploaded_file.read().decode('utf-8').strip()
23         file_contents = file_content.replace('[', '').replace(']', '')
24         string_array = file_contents.split(',')
25         #print("file_content: ", file_content)
26         data = np.array(string_array, dtype=np.float64)
27         model = pickle.load(open('model.pkl', 'rb'))
28         #data = np.array(file_content)
```

3. form.html

### Sentiment Analysis - User Input

Enter a keyword:

bad

Analyze

Keyword: {{ result.keyword }}

Sentiment: {{ result.sentiment }}

(% if result %)

(% endif %)

### 3. Docker file

Frontend Mentor | S... Seán Halpin - a web... Bootstrap 5 starter | TelloSpeech by Andre... (18) JavaScript Tutor... Introduction to Java... Mr Kitty - After 5... Practice | Modal - Bootstrap v5 | MLOPs\_Assignm... WhatsApp

github.com/FahmedS/MLOPs\_Assignment\_2/blob/main/Dockerfile

main MLOPs\_Assignment\_2 / Dockerfile Go to file ...

FahmedS Update Dockerfile Latest commit ac56680 on Mar 24 History

1 contributor

20 lines (14 sloc) 546 Bytes Raw Blame

```
1 # Use an official Python runtime as a parent image
2 FROM python:3.8-slim-buster
3
4 # Set the working directory to /app
5 WORKDIR /app
6
7 # Copy the current directory contents into the container at /app
8 COPY . /app
9
10 # Install any needed packages specified in requirements.txt
11 RUN pip install --trusted-host pypi.python.org -r requirements.txt
12
13 # Make port 80 available to the world outside this container
14 EXPOSE 80
15
16 # Define environment variable
17 ENV NAME World
18
19 # Run app.py when the container launches
20 CMD ["python", "livesenti.py"]
```

Give feedback

11:56 AM 4/26/2023

4.

Jenkins

Dashboard > assignment\_2\_dockerfile\_job

**Pipeline assignment\_2\_dockerfile\_job**

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

GitHub

Rename

Pipeline Syntax

GitHub Hook Log

**Build History** trend

Atom feed for all Atom feed for failures

**Stage View**

	Declarative: Checkout SCM	Main Branch Init	Test	Build	Publish	Cleanup
Average stage times: (Average full run time: ~8s)	2s	156ms	104ms	96ms	90ms	95ms
#2 Mar 24 23:42 1 commit	2s	105ms	91ms	91ms	87ms	100ms
#1 Mar 24 23:36 No Changes	3s	208ms	118ms	102ms	94ms	90ms

**Permalinks**

- Last build (#2), 4 min 21 sec ago
- Last stable build (#2), 4 min 21 sec ago
- Last successful build (#2), 4 min 21 sec ago
- Last completed build (#2), 4 min 21 sec ago

REST API Jenkins 2.375.3

#### 4. Connected via Jenkins(webhook ngrok)

localhost:8080/job/assignment\_2\_dockerfile\_job/

**Stage Logs (Declarative: Checkout SCM)**

Check out from version control (self time 1s)

```

Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\jenkins\workspace\assignment_2_dockerfile_job\.git # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/FAhmed5/MLOPs_Assignment_2 # timeout=10
Fetching upstream changes from https://github.com/FAhmed5/MLOPs_Assignment_2
> git.exe --version # timeout=10
> git --version # 'git version 2.39.2.windows.1'
> git.exe fetch --tags --force --progress -- https://github.com/FAhmed5/MLOPs_Assignment_2 +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe rev-parse "refs/remotes/origin/main^(commit)" # timeout=10
Checking out Revision ac5668086f43a0e0722090a4aff5bdb9dd2822e9 (refs/remotes/origin/main)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f ac5668086f43a0e0722090a4aff5bdb9dd2822e9 # timeout=10
Commit message: "Update Dockerfile"
> git.exe rev-list --no-walk ac5668086f43a0e0722090a4aff5bdb9dd2822e9 # timeout=10

```

**Build History** trend

	Declarative: Checkout SCM	Main Branch Init	Test	Build	Publish	Cleanup
#3 Mar 24 23:49 No Changes	1s	95ms	83ms	86ms	78ms	77ms
#2 Mar 24 23:42 1 commit	2s	105ms	91ms	91ms	87ms	100ms
#1 Mar 24 23:36 No Changes	3s	208ms	118ms	102ms	94ms	90ms

**Permalinks**

- Last build (#2), 7 min 5 sec ago
- Last stable build (#2), 7 min 5 sec ago
- Last successful build (#2), 7 min 5 sec ago
- Last completed build (#2), 7 min 5 sec ago

## 5. Bild successful

The screenshot shows the Jenkins web interface for the pipeline `assignment_2_dockerfile_job`. The left sidebar contains navigation links: Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, GitHub, Rename, Pipeline Syntax, and GitHub Hook Log. The main content area displays the **Stage View** with a table of stage execution times and a **Build History** section.

**Stage View**

	Declarative: Checkout SCM	Main Branch Init	Test	Build	Publish	Cleanup
Average stage times: (Average full run time: ~8s)	2s	156ms	104ms	96ms	90ms	95ms
Mar-24 23:42 1 commit	2s	105ms	91ms	91ms	87ms	100ms
Mar-24 23:36 No Changes	3s	208ms	118ms	102ms	94ms	90ms

**Permalinks**

- Last build (#2), 4 min 21 sec ago
- Last stable build (#2), 4 min 21 sec ago
- Last successful build (#2), 4 min 21 sec ago
- Last completed build (#2), 4 min 21 sec ago

**Build History**

REST API Jenkins 2.375.3