

Name: **Cloud and API deployment**

Submission date: **7 August 2022**

Internship Batch: **LISUM11**

Data intake and model creation by: **Kemal Çağın Sertkaya**

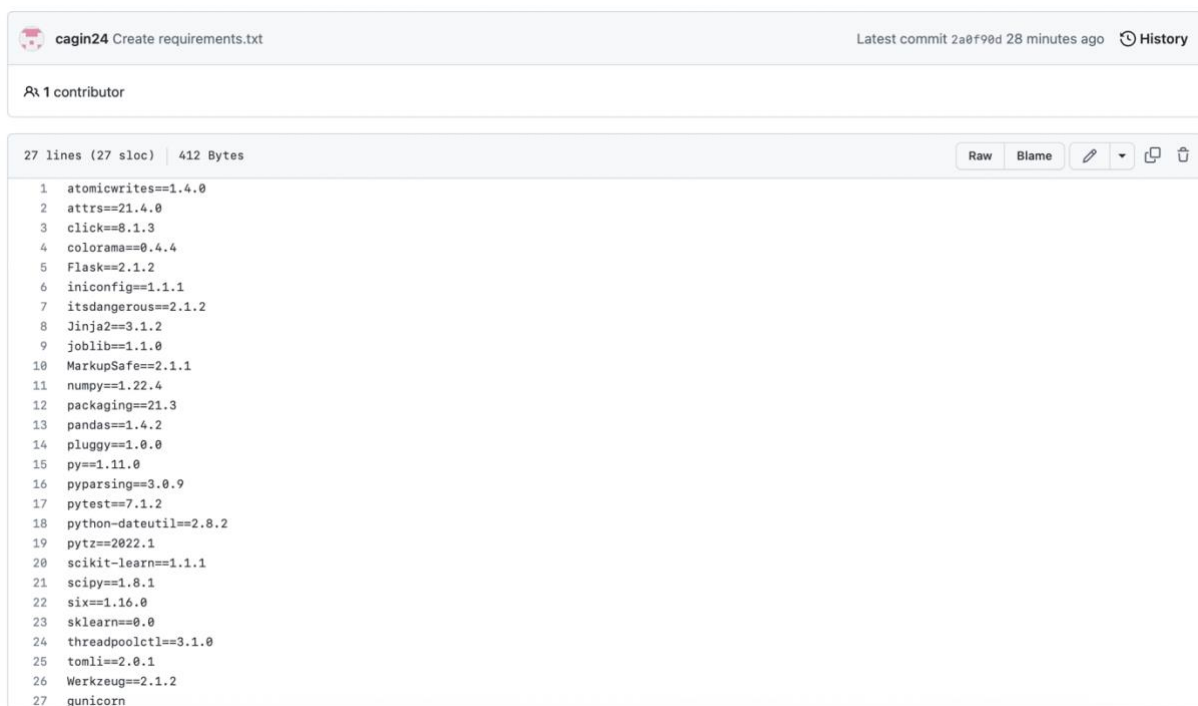
Submitted to: <https://github.com/cagin24/Data-Glacier-Week-5>

Previous week's model and dataset are used in week 5. Following files created to deploy Heroku web application:

- requirements.txt
- runtime.txt
- Procfile

Details of above files can be seen below:

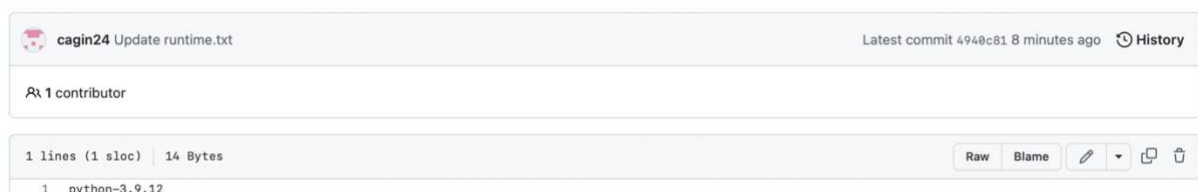
requirements.txt



The screenshot shows a GitHub repository interface for the file 'requirements.txt'. At the top, it says 'cagin24 Create requirements.txt' and 'Latest commit 2a0f98d 28 minutes ago'. Below this, it indicates '1 contributor'. The file content is displayed in a code editor with 27 lines and 412 bytes. The content lists various Python dependencies with their versions, such as 'atomicwrites==1.4.0', 'attrs==21.4.0', 'click==8.1.3', 'colorama==0.4.4', 'Flask==2.1.2', 'iniconfig==1.1.1', 'itsdangerous==2.1.2', 'Jinja2==3.1.2', 'joblib==1.1.0', 'MarkupSafe==2.1.1', 'numpy==1.22.4', 'packaging==21.3', 'pandas==1.4.2', 'pluggy==1.0.0', 'py==1.11.0', 'pyparsing==3.0.9', 'pytest==7.1.2', 'python-dateutil==2.8.2', 'pytz==2022.1', 'scikit-learn==1.1.1', 'scipy==1.8.1', 'six==1.16.0', 'sklearn==0.0', 'threadpoolctl==3.1.0', 'tomli==2.0.1', 'Werkzeug==2.1.2', and 'gunicorn'.

```
1 atomicwrites==1.4.0
2 attrs==21.4.0
3 click==8.1.3
4 colorama==0.4.4
5 Flask==2.1.2
6 iniconfig==1.1.1
7 itsdangerous==2.1.2
8 Jinja2==3.1.2
9 joblib==1.1.0
10 MarkupSafe==2.1.1
11 numpy==1.22.4
12 packaging==21.3
13 pandas==1.4.2
14 pluggy==1.0.0
15 py==1.11.0
16 pyparsing==3.0.9
17 pytest==7.1.2
18 python-dateutil==2.8.2
19 pytz==2022.1
20 scikit-learn==1.1.1
21 scipy==1.8.1
22 six==1.16.0
23 sklearn==0.0
24 threadpoolctl==3.1.0
25 tomli==2.0.1
26 Werkzeug==2.1.2
27 gunicorn
```

runtime.txt



The screenshot shows a GitHub repository interface for the file 'runtime.txt'. At the top, it says 'cagin24 Update runtime.txt' and 'Latest commit 4940c81 8 minutes ago'. Below this, it indicates '1 contributor'. The file content is displayed in a code editor with 1 line and 14 bytes. The content is 'python-3.9.12'.

```
1 python-3.9.12
```

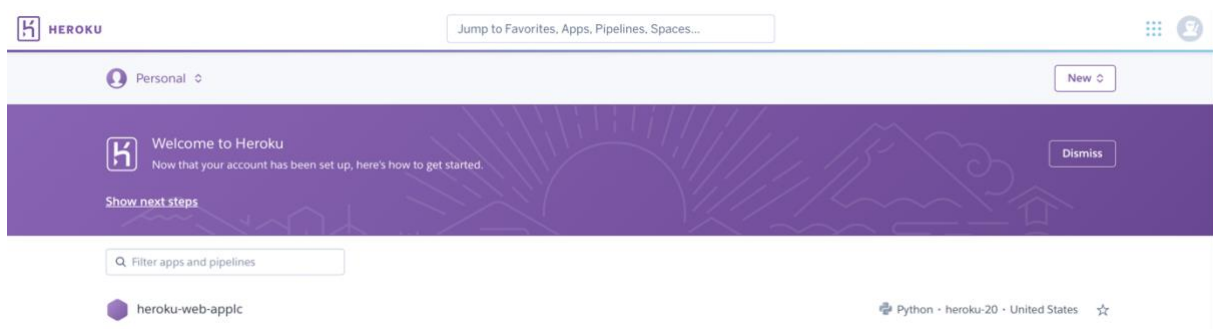
Procfile

```
1 lines (1 sloc) | 22 Bytes
1 web: gunicorn app:app
```

* Also, `app.py` slightly changed. Some `<flask_app>` terms converted into `<app>`.

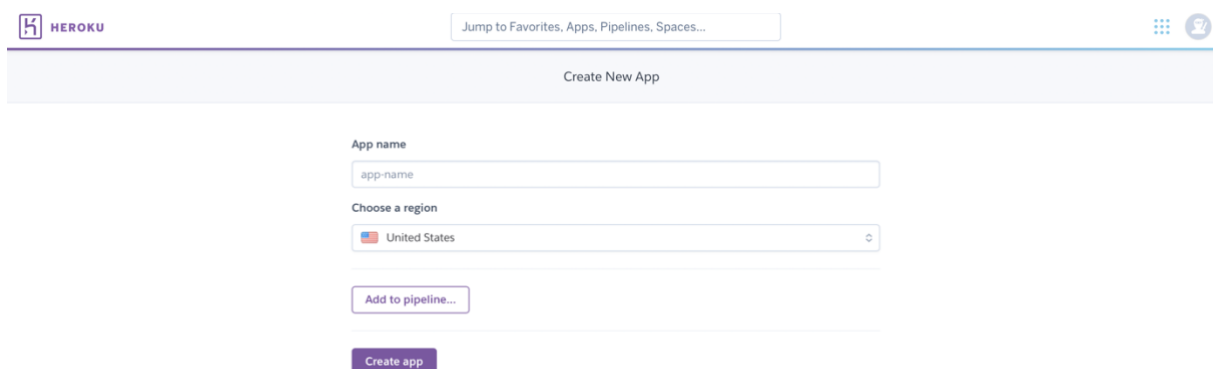
Deployment on Heroku

After successfully creating an account on Heroku and logging in, simply clicked on the New -> Create new app button on the right corner of the page.

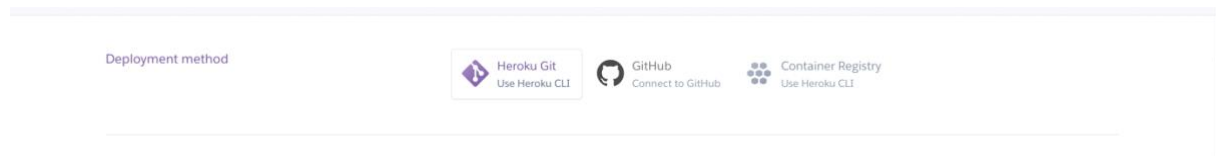


Created a Heroku account and linked it to my Data-Glacier-Week-5 repository. Then, deploy the branch successfully.

Then, I set the App name as “heroku-web-applic” and clicked on the Create app button.



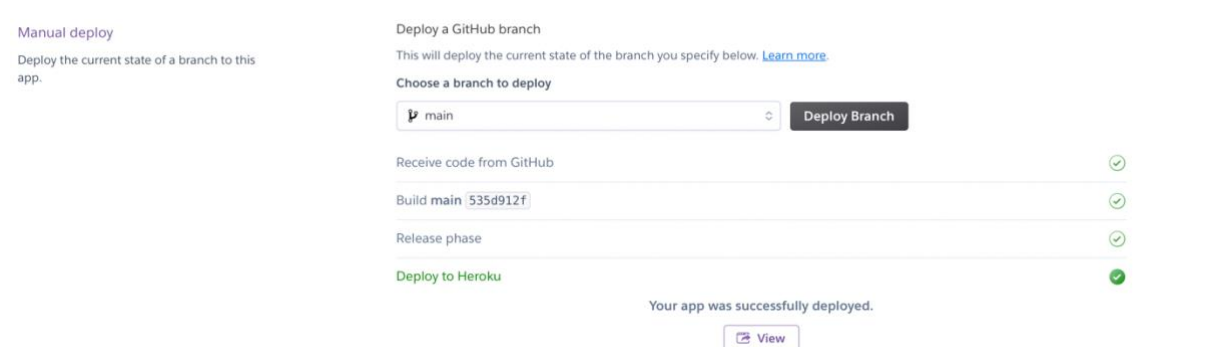
After successfully creating the application, Github is selected as deployment method. So, by doing this, you can link your Github and Heroku account together.



Next, Data-Glacier-Week-5 repository is connected to Heroku by typing the name of the related repository.



In the final step, simply deployed the branch and check the logs whether the deployment is successful or not.



The web application is deployed to the Heroku cloud and can be accessible here: <https://heroku-web-applc.herokuapp.com>

