Deployment on Heroku

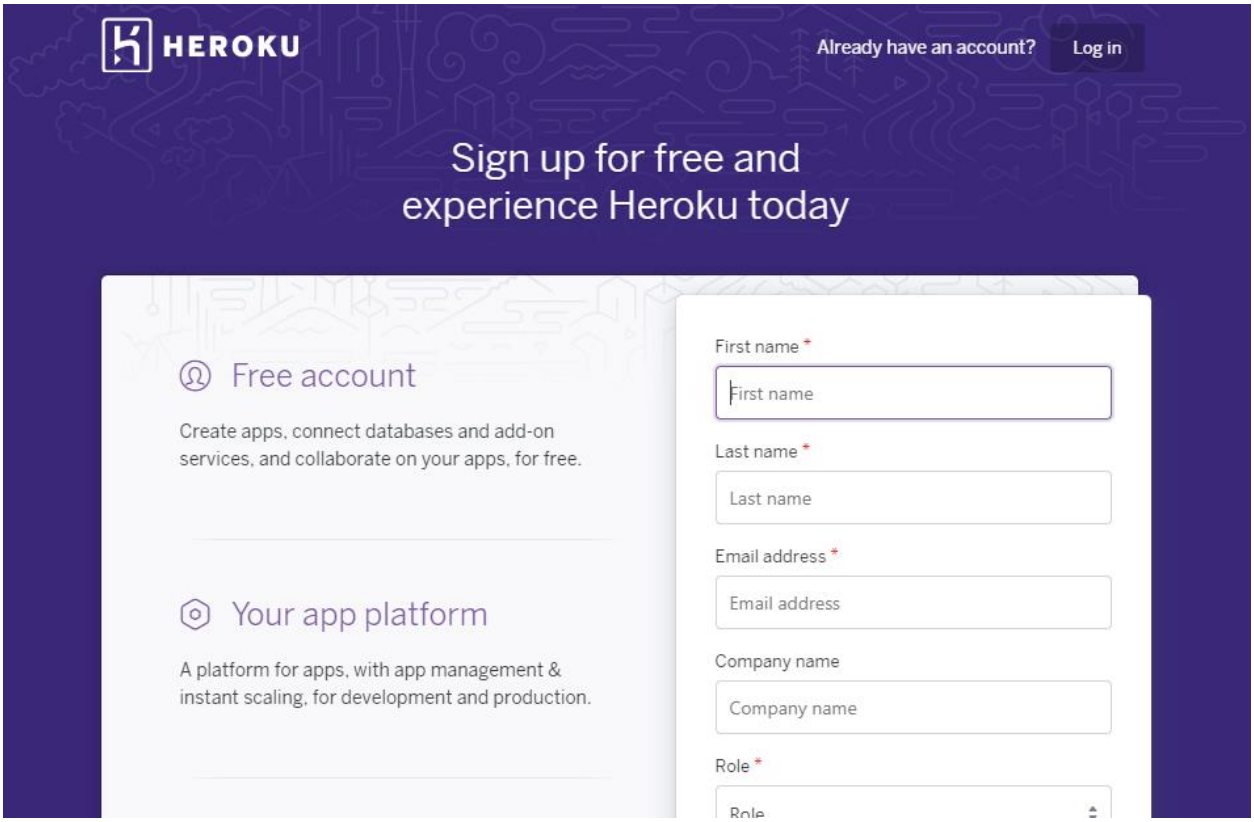
Name: Anticipating Diabetes With AI
Report date: 9-Jul-2021
Internship Batch: LISUM01
Report intake by: Yousef Elbayoumi
Report intake reviewer: Data Glacier team
Report location: https://github.com/yousefhosam-b/DataGlacier_Internship/tree/main/Task5

Tabular data details:

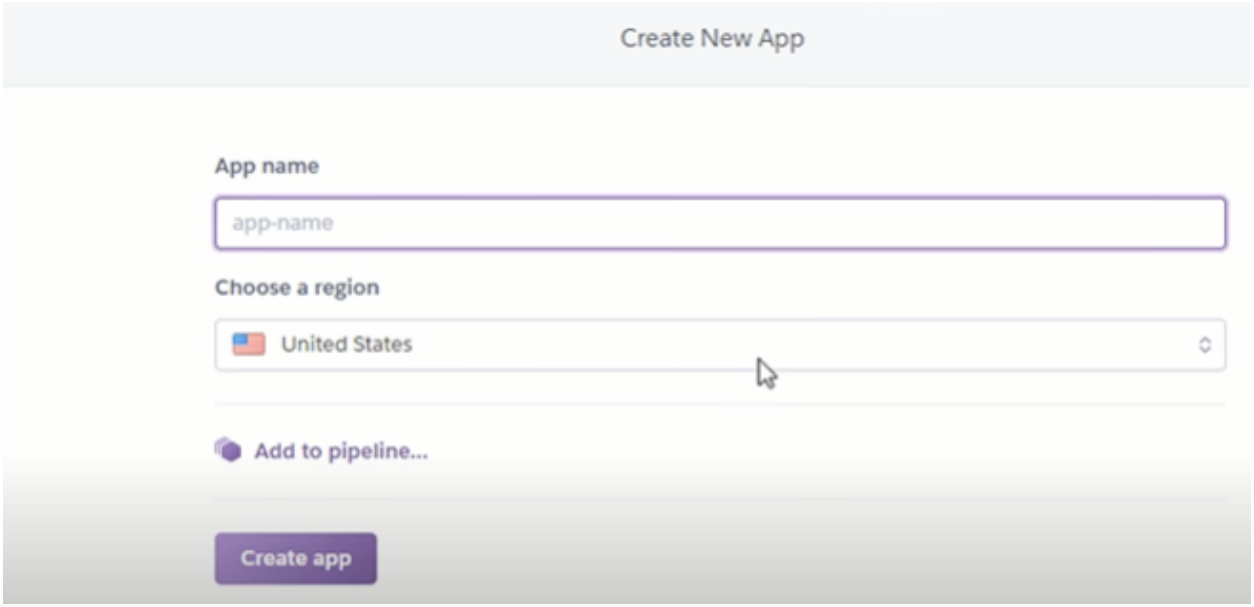
Total number of observations	768 rows
Total number of files	1 file
Total number of features	9 columns
Base format of the file	csv file
Size of the data	24 KB

Starting with Heroku:

Create an account:



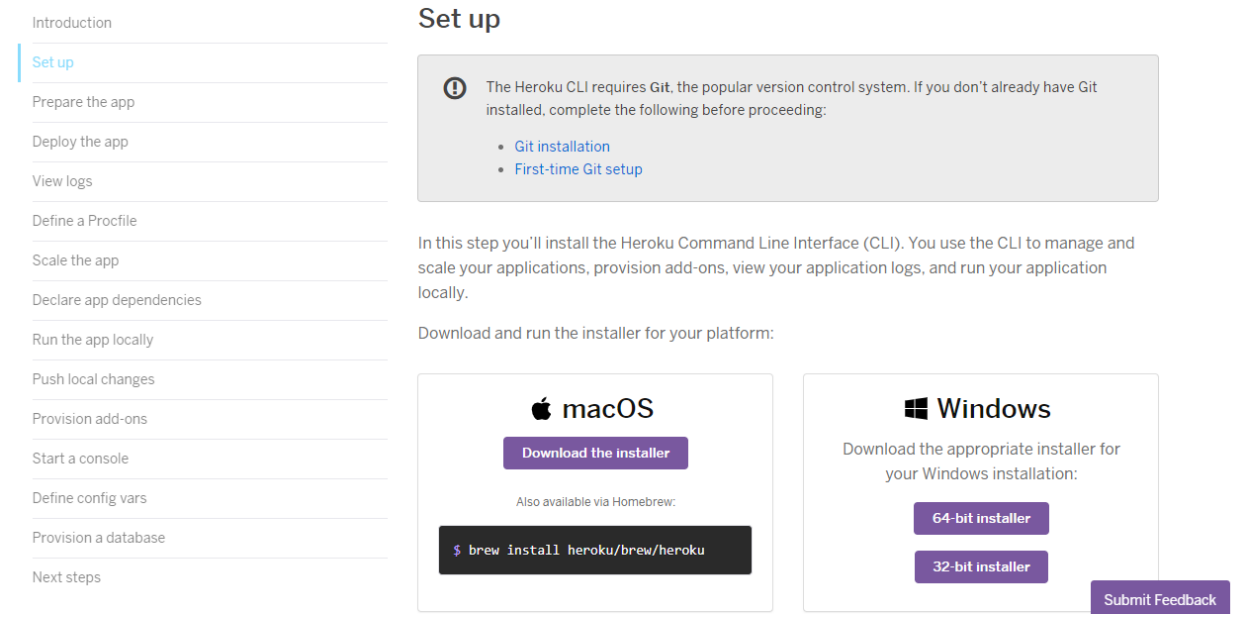
Create an app:



The App should look like this:

Downloading Heroku:

Download from Heroku's website:



Checking if Heroku was downloaded successfully:
As the commands can be shown, the installation completed successfully.

```
Microsoft Windows [Version 10.0.19041.1083]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sefaa>heroku
CLI to interact with Heroku

VERSION
  heroku/7.56.0 win32-x64 node-v12.21.0

USAGE
  $ heroku [COMMAND]

COMMANDS
  access          manage user access to apps
  addons          tools and services for developing, extending, and operating your app
  apps            manage apps on Heroku
  auth            check 2fa status
  authorizations  OAuth authorizations
  autocomplete    display autocomplete installation instructions
  buildpacks      scripts used to compile apps
  certs           a topic for the ssl plugin
  ci              run an application test suite on Heroku
  clients         OAuth clients on the platform
  config          environment variables of apps
  container       Use containers to build and deploy Heroku apps
  domains         custom domains for apps
  drains          forward logs to syslog or HTTPS
  features        add/remove app features
  git             manage local git repository for app
  help            display help for heroku
```

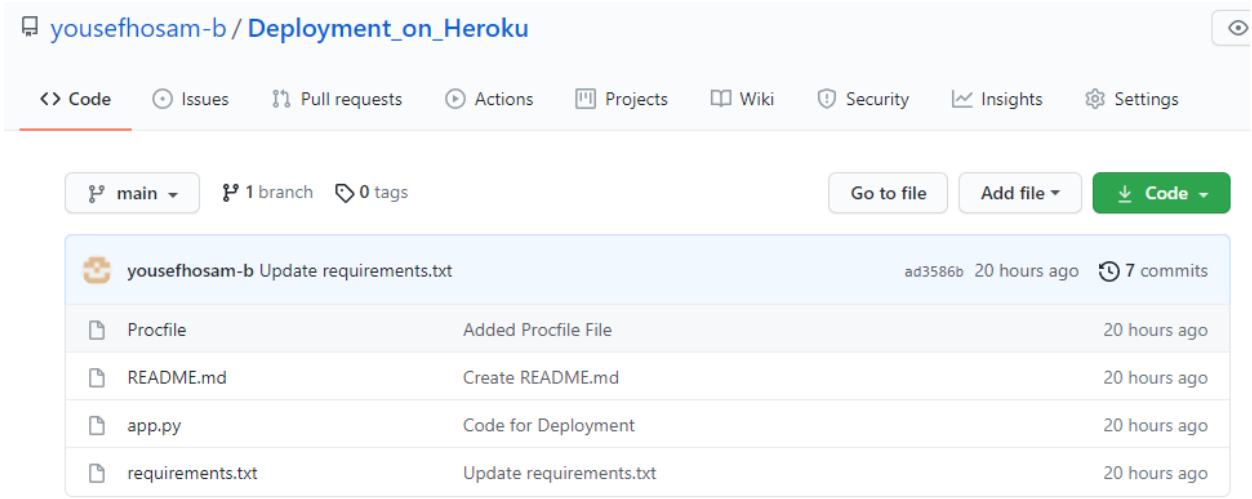
Preparing the Required Files:

Preparing Requirements.txt Text Document:
The text document was created manually, but I used “pip freeze > requirements.txt” command.

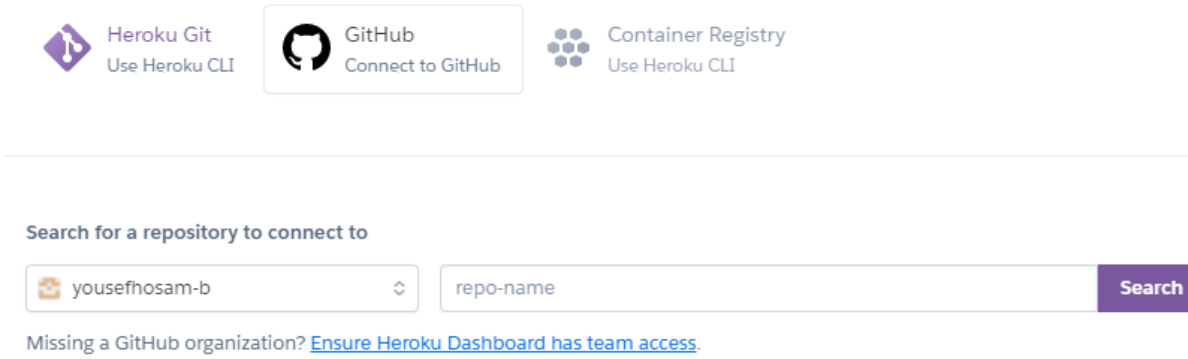
Preparing Procfile File:
The file was created manually.

Preparing The Model and Python File:
I used the same model and python file from Flask task, therefore I didn’t have to do anything here.

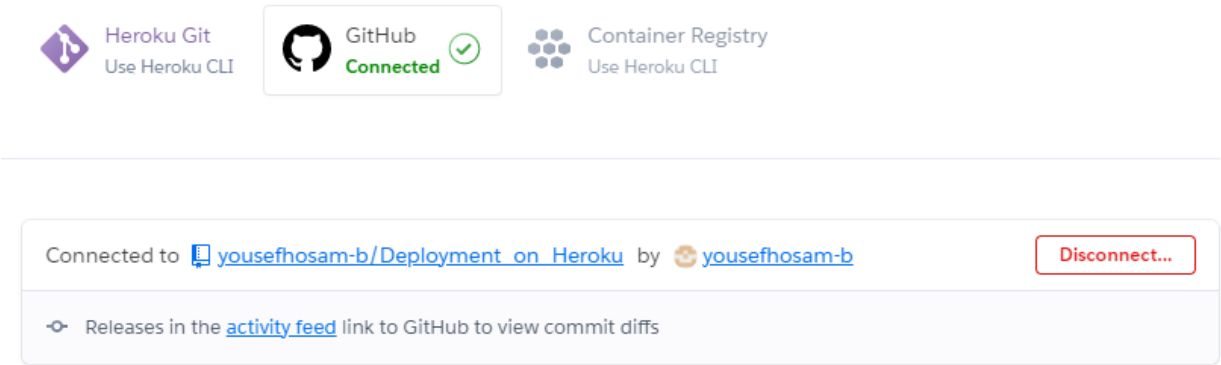
Uploading the Files to GitHub:



Connecting Heroku with GitHub Repository:

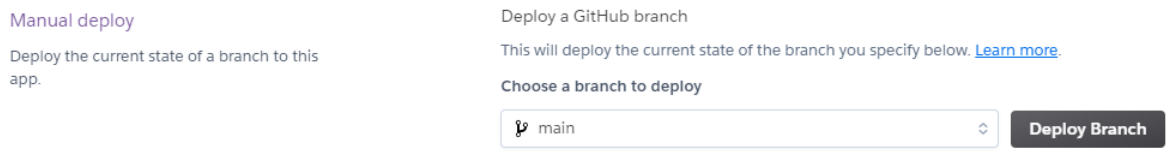


It should look like this after connecting:

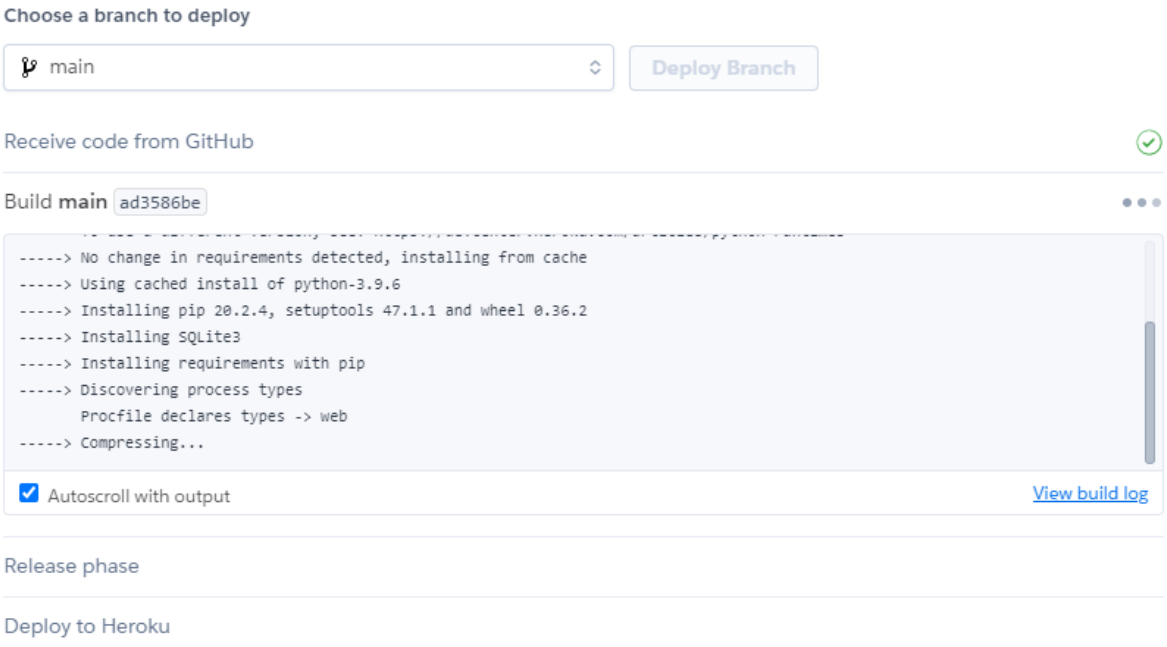


Deploying the Model:

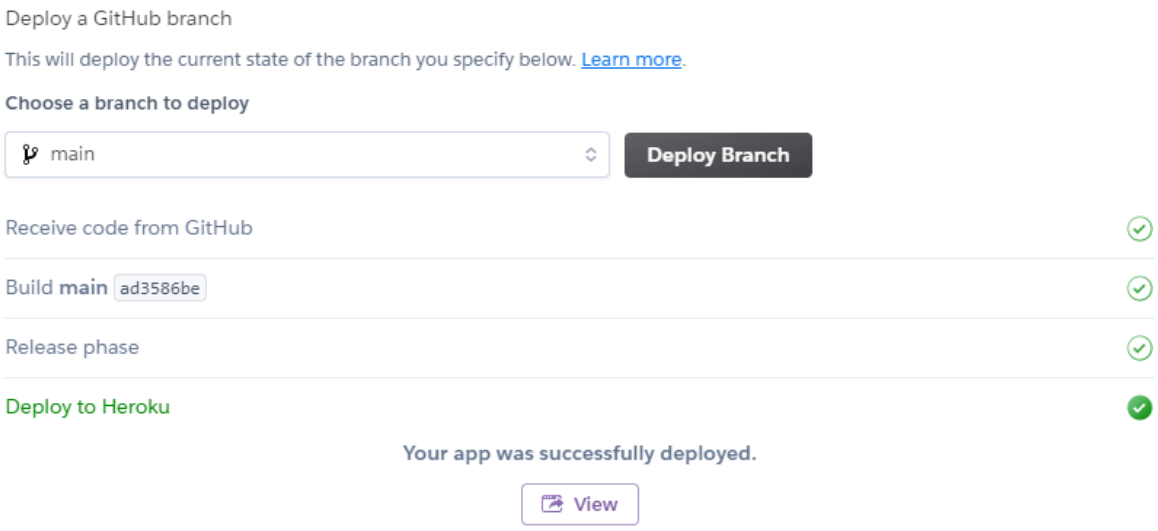
Click “Deploy Branch”



Deploying:

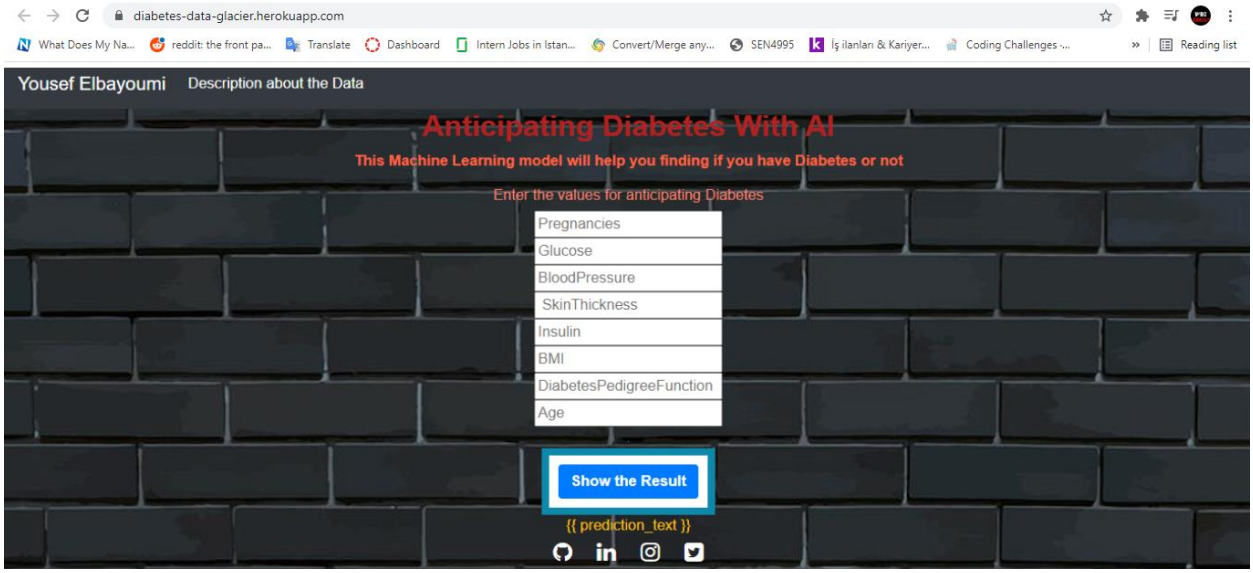


It should look like this when it finishes:



Deployment Result:

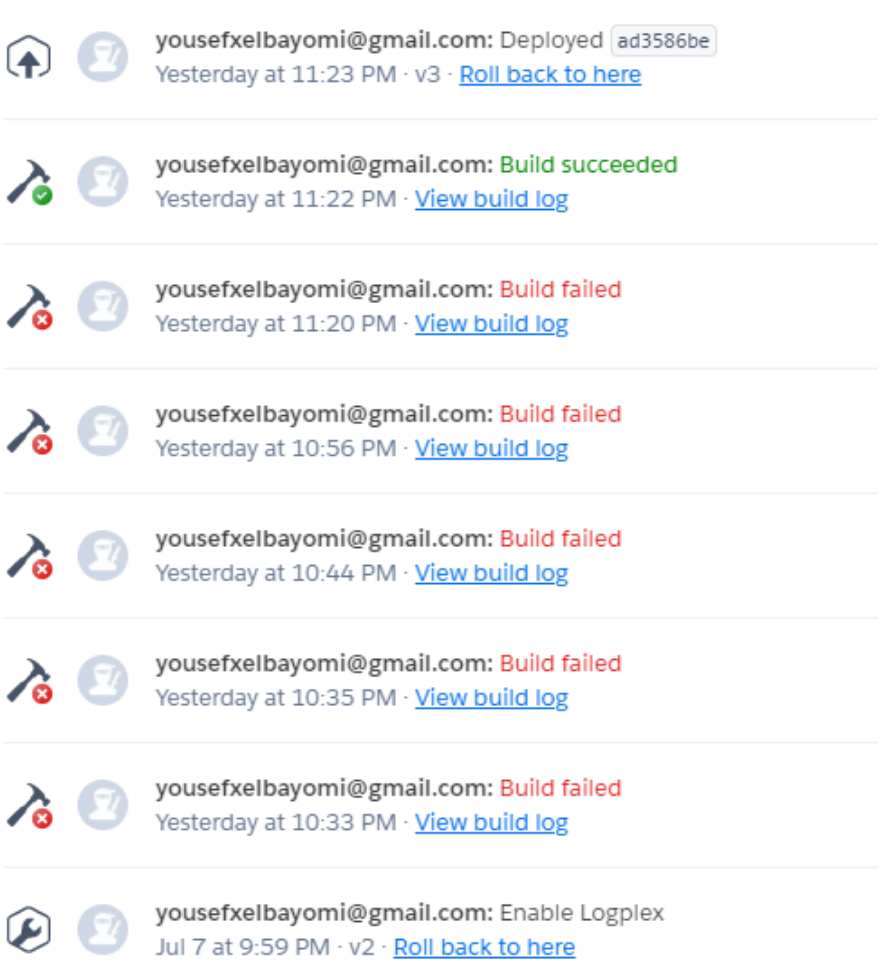
I had similar same result as the deployment on Flask because I used same model.



Adding some Config Vars:

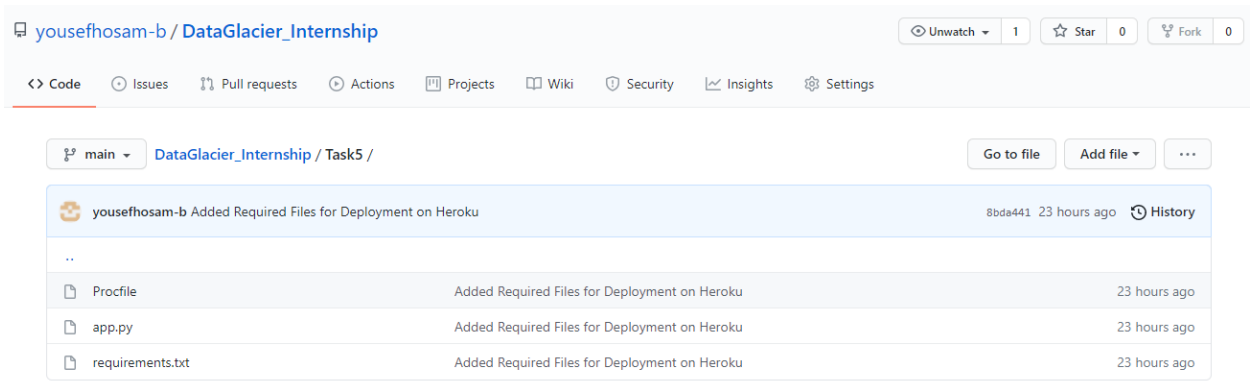
Review:

Can everything be that perfect? Without any errors? Surely no, I wasn't able to deploy the model for couple of reasons, I will share them in the following figures.



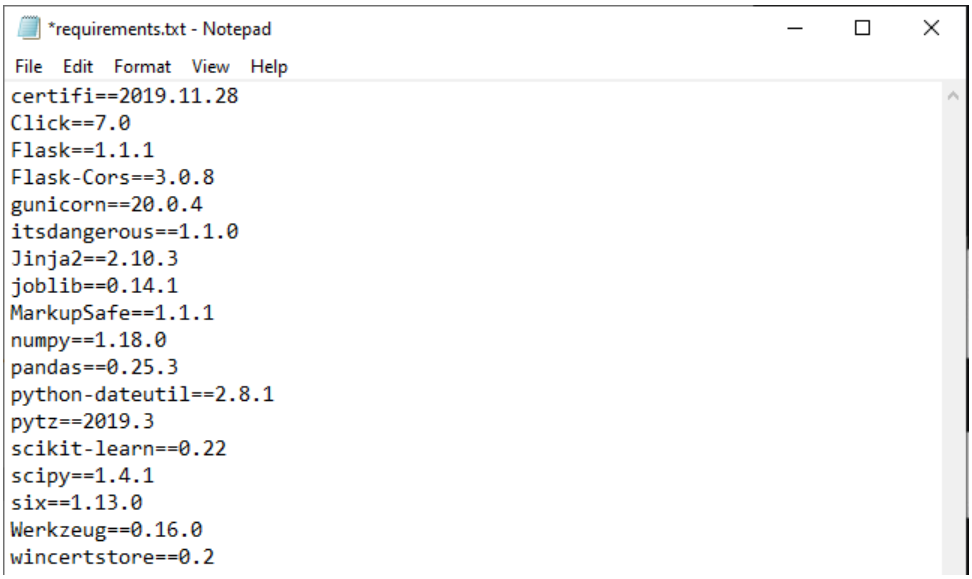
GitHub Repository:

In the first deploy, I created Task5 folder in my DataGlacier_Internship repository and pushed all required files into it, you can check it below. However, that gave error, and I solved it by creating new repository which is "Deployment_on_Heroku" and pushed all files into it directly without creating inner folders, I shared figure of it in previous figures you can check it.

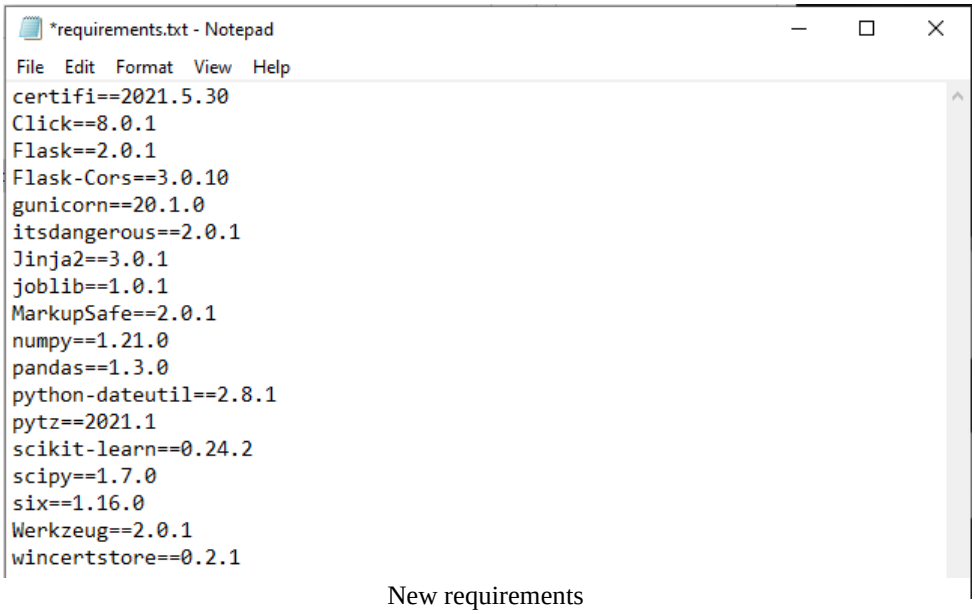


Requirements Text Document:

I used these versions which gave me an error, after searching I learned about the latest versions and used them to solve the problem, down below the first figure is the old requirement.txt and the second figure is the new one, you can check the difference in the versions.



Old requirements



New requirements

One more thing:

In the previous two figures, last requirement in both of them is “wincertstore”, and 0.2.1 is the latest version of it. However, this version gave error while deploying the model, and when I used the previous version which is 0.2 the deployment worked.
This error wasn’t expected to be honest but at the end I managed to deploy the model.

That was all from me, thanks for reading.