

DataGlacier: Week5 → Cloud and API deployment

Name: Senayit Berhane

Batch code: LISUM21

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Model from week 4 is used for this assignment:

→ Create the project folder in my Desktop: senayit_project

→ Create a virtual environment: senayit_env

```
$python -m venv senayit_env
```

→ Activate the virtual environment

```
$ source ~/Desktop/senayit_project/venv/bin/activate
```

→ Create two files app.py and model.py

→ The model.py file contains the code for training the model.

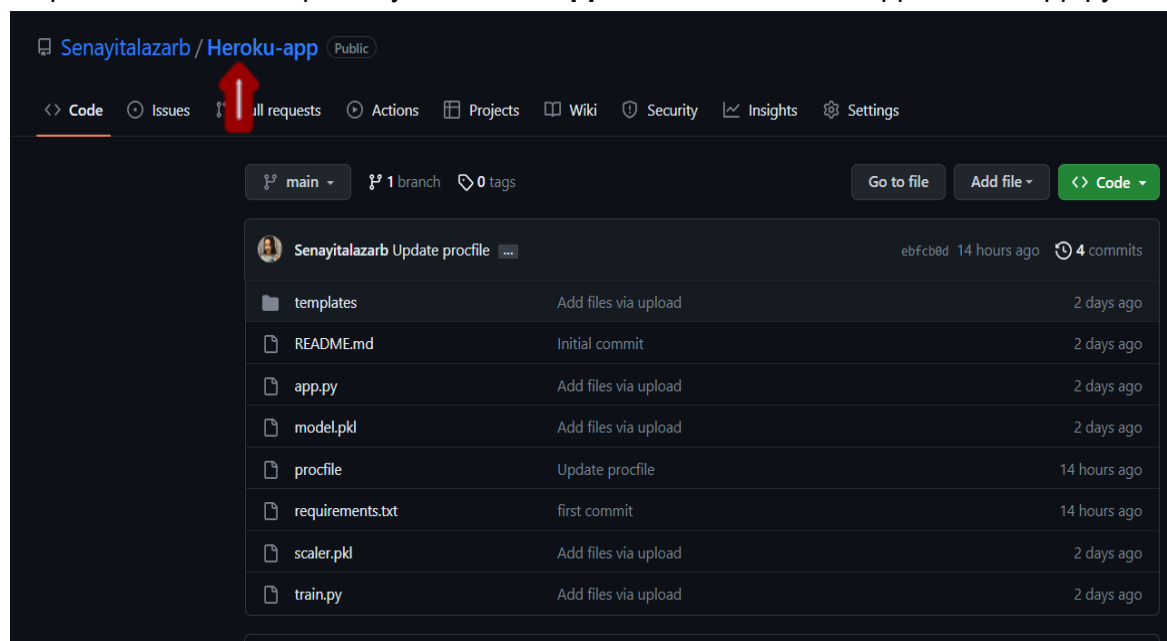
→ If you run python model.py , it will create two pickle files in the root directory.

Those pickle files are part of the serialization step. The scale.pkl and model.pkl are the serialized files.

→ Also in the root directory create a template directory called “templates” directory which has an index.html file inside it.

→ Train the model using randomly generated data and save it as model.pkl in the project folder senayit_project

Step 1: Create the a repository→ **Heroku-app** and add the model.app and the app.py



Step 2: Connect the heroku-demo-2 app created to the Github repository

Personal > heroku-demo-2

GitHub Senayitalazarb/Heroku-app

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 [Senayitalazarb/Heroku-app](#) by [Senayitalazarb](#) [Disconnect...](#)

Release to the web for this app to GitHub and deploy code diffs.

Step 3: Manually deploy the model

Deploy a GitHub branch

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

Choose a branch to deploy

[Deploy Branch](#)

Receive code from GitHub

```
Build main 099b0cb1
~
~ Mis-cased procfile detected; ignoring.
~ Rename it to Procfile to have it honored.
Procfile declares types -> (none)
-----> Compressing...
Done: 141.8M
-----> Launching...
Released v4
https://heroku-demo-2.herokuapp.com/ deployed to Heroku
```

[View build log](#)

Release phase

Deploy to Heroku