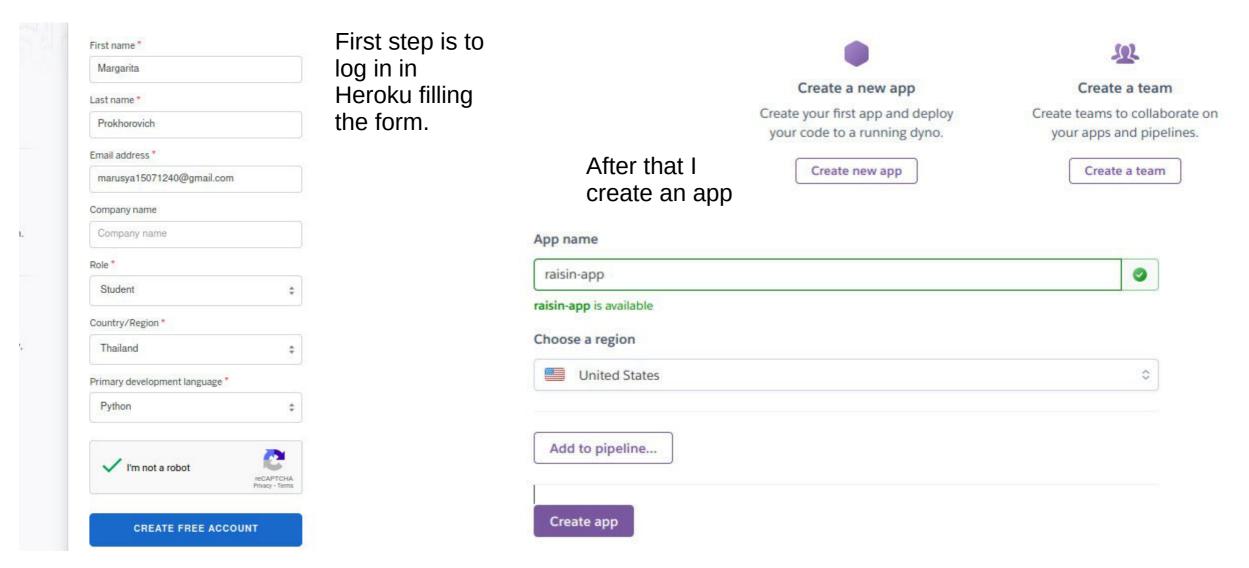


## Deployment on Heroku Raisin type prediction app

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#### Creating Heroku account and app

In this project I use a model and app from the previous project – raisin type prediction app. I described model building and deployment on Flask sections in a previous week project. Here I'll describe a further development on Heroku.



#### Linking the app to a GitHub repository and start of the deployment

I choose GitHub as a deployment method. When pressing 'Connect to GitHub', an error occurs. Since there's no possibility to deploy the app through GitHub, I'll deploy it through Heroku Git.



An error that occurs when trying to connect to GitHub.

Type 'heroku login' in the console.

```
nyak@nyak-ThinkPad-X220:~/Desktop/scripts$ heroku login
heroku: Press any key to open up the browser to login or q to exit
:
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/2f
b9ffb4-8e85-47e7-90a8-2e42991e9523?requestor=SFMyNTY.g2gDbQAAAAw00
S4yMzcuOC4yMTVuBgD4i6P2gAFiAAFRgA.zWhGZUaoEeCCiKfA1fkuzbrt_qOB-CkQ
GCH8e2N1sHQ
heroku: Waiting for login... ;;
```

Logged in on the site.

```
Logged In

You can close this page and return to your CLI. It should now be logged in.
```

```
nyak@nyak-ThinkPad-X220:~/Desktop/scripts/VC/Week5$ pip install
pipregs
Defaulting to user installation because normal site-packages is
not writeable
Requirement already satisfied: pipreqs in /home/nyak/.local/lib/
python3.8/site-packages (0.4.11)
Requirement already satisfied: docopt in /home/nyak/.local/lib/p
ython3.8/site-packages (from pipreqs) (0.6.2)
Requirement already satisfied: yarg in /home/nyak/.local/lib/pyt
hon3.8/site-packages (from pipregs) (0.1.9)
Requirement already satisfied: requests in /usr/lib/python3/dist
-packages (from yarg->pipreqs) (2.22.0)
WARNING: You are using pip version 22.0.4; however, version 22.1
 is available.
You should consider upgrading via the '/usr/bin/python3 -m pip i
nstall --upgrade pip' command.
nyak@nyak-ThinkPad-X220:~/Desktop/scripts/VC/Week5$ pipreqs .
INFO: Successfully saved requirements file in ./requirements.txt
nyak@nyak-ThinkPad-X220:~/Desktop/scripts/VC/Week5$
```

In addition to app and model files, templates and style files, it's also needed to add requirements.txt and Procfile files. To generate requirements.txt file, I can use pipreqs module. Since an error occurs, I also add gunicorn to the requirements. Also I create runtime.txt to specify python version.

#### Model deployment

create mode 100644 runtime.txt

create mode 100644 standart scale.pkl

create mode 100644 static/css/style.css

create mode 100644 templates/index.html

create mode 100644 static/images/schema.png

```
nyak@nyak-ThinkPad-X220:~/Desktop/scripts/VC/Week5$ git init
Initialized empty Git repository in /home/nyak/Desktop/scripts/VC/Week5/.git/
nyak@nyak-ThinkPad-X220:~/Desktop/scripts/VC/Week5$ heroku git:remote -a raisin-app
set git remote heroku to https://git.heroku.com/raisin-app.git
nyak@nyak-ThinkPad-X220:~/Desktop/scripts/VC/Week5$ git add .
nyak@nyak-ThinkPad-X220:~/Desktop/scripts/VC/Week5$ git commit -m 'Created heroku app'
[master (root-commit) aaacb91] Created heroku app
15 files changed, 833 insertions(+)
create mode 100644 .~lock.Deployment_on_Flask_snapshots.odp#
create mode 100644 .~lock.Raisin Dataset.xlsx#
create mode 100644 Deployment on Flask snapshots.odp
create mode 100644 Procfile
create mode 100644 README.md
create mode 100644 Raisin Dataset.xlsx
create mode 100644 app.pv
create mode 100644 model.ipynb
create mode 100644 model_raisin.pkl
create mode 100644 requirements.txt
```

I initialize a new git repository in a project week. Next step is to connect the app to git remote. After that I add and commit the files.

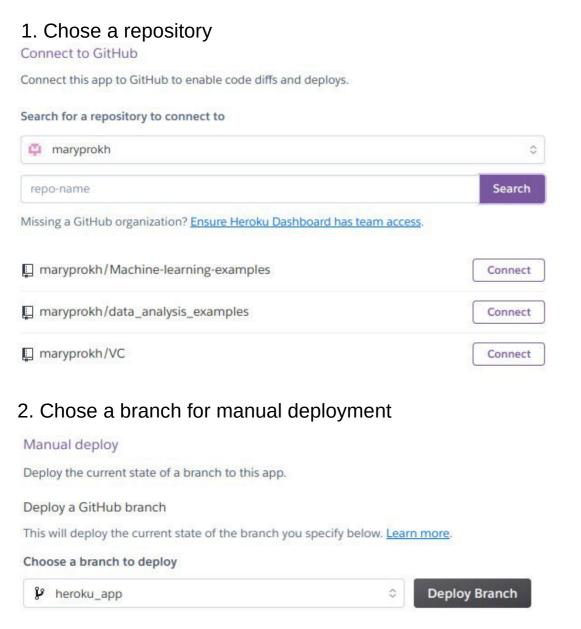
After that I push the changes to heroku master branch. Process is completed successfully.
After that I type 'heroku open' to open the app and test it.

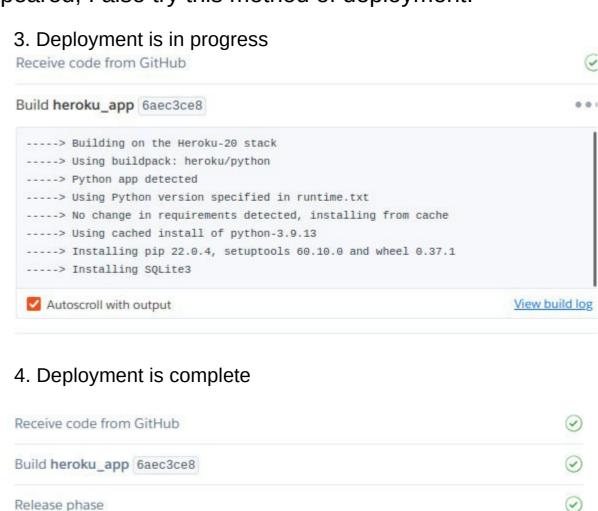
```
nyak@nyak-ThinkPad-X220:~/Desktop/scripts/VC/Week5$ git push heroku master
Enumerating objects: 21, done.
Counting objects: 100% (21/21), done.
Delta compression using up to 4 threads
Compressing objects: 100% (15/15), done.
Writing objects: 100% (21/21), 470.41 KiB | 14.70 MiB/s, done.
Total 21 (delta 0), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: ----> Building on the Heroku-20 stack
remote: ----> Determining which buildpack to use for this app
remote: ----> Python app detected
remote: ----> Using Python version specified in runtime.txt
remote: ----> Installing python-3.9.13
remote: ----> Installing pip 22.0.4, setuptools 60.10.0 and wheel 0.37.1
remote: ----> Installing SOLite3
remote: ----> Installing requirements with pip
               Collecting Flask==1.1.1
remote:
```

#### Additional: deployment via GitHub

Since a week later the error with GitHub connection disappeared, I also try this method of deployment.

Deploy to Heroku





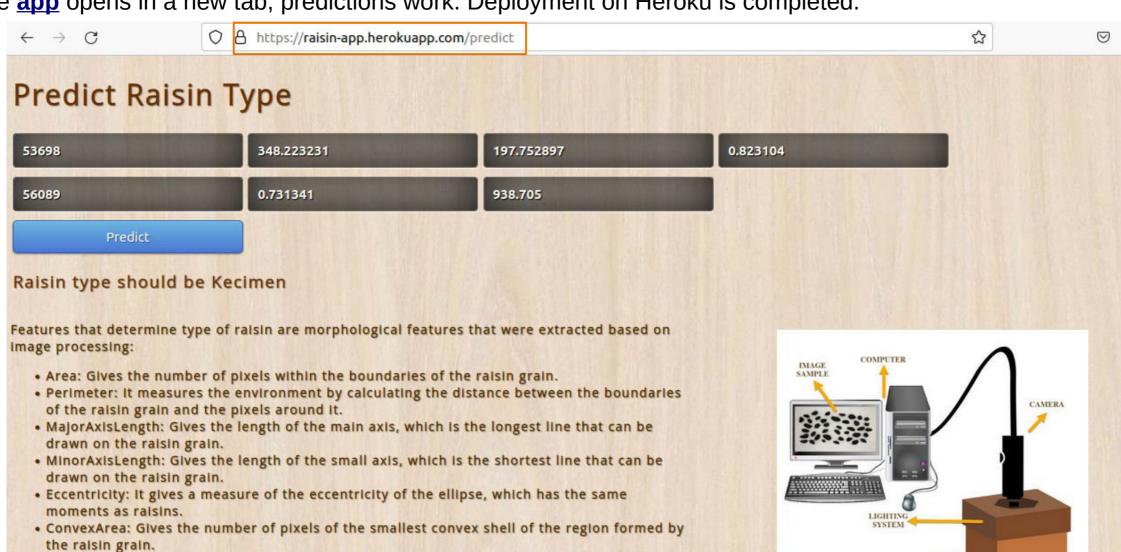
Your app was successfully deployed.

View

#### Testing the app

The **app** opens in a new tab, predictions work. Deployment on Heroku is completed.

. Extent: Gives the ratio of the region formed by the raisin grain to the total pixels in the



BOX 🥠

Full study text

bounding box.

# Raisin type eployment on Heroku prediction app

### Thank You