

DEPLOYMENT MODEL DI HEROKU

By Prissy Nusaiba Yulisa

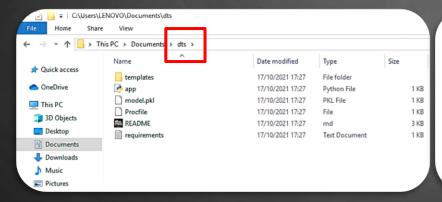


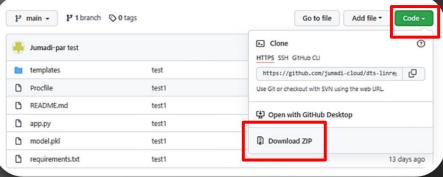






Pastikan bahwa anda telah membuat model, bisa machine learning (prediksi, klasifikasi, atau clustering), deep learning, maupun lainnya dalam Visual Studio Code menggunakan framework flask, dan di simpan dalam satu folder. Atau mengambil model yang sudah ada di Github dengan mendownloadnya dalam bentuk file Zip yang kemudian di ekstrak (disini saya menggunakan model dari algoritma regresi linier).





Model tersimpan dalam folder dts

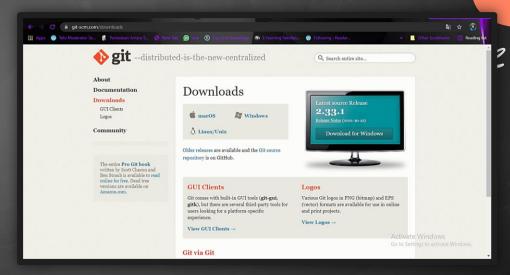
Download file Zip dari Github



Install git melalui link berikut → https://git-scm.com/downloads

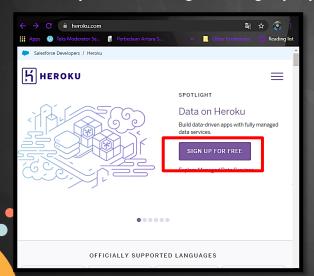
Setelah terinstal, lakukan konfigurasi dengan mengetikkan beberapa perintah berikut di Git Bash:

- git config --global user.name "username github"
- git config --global user.email "nama email"
- git init
- Is (untuk memeriksa apakah konfigurasi sudah berhasil dengan memberi informasi umum)
- ll (memeberi informasi detail)

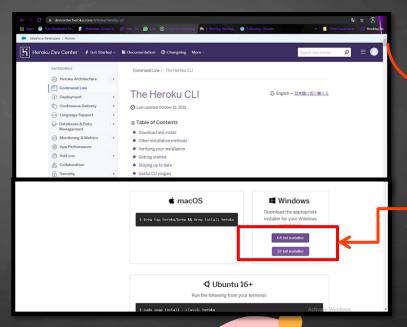




Buat akun di heroku.com → lalu install heroku cli melalui laman devcenter.heroku.com sesuai dengan sistem operasi masing-masing laptop.

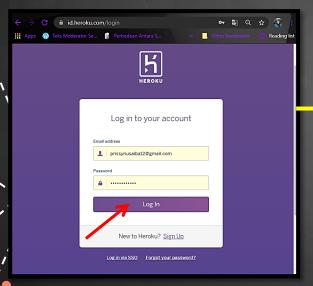


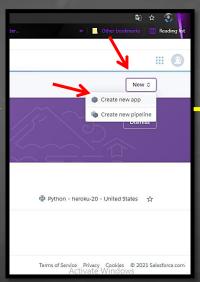
Buat akun heroku

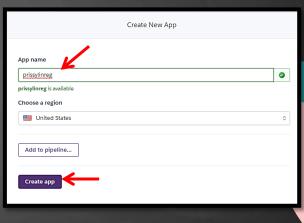


Scrooll ke bawah terdapat tools untuk donwload heroku cli

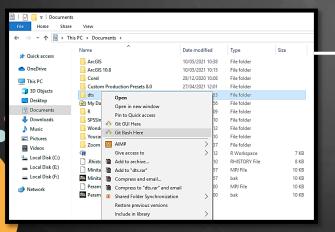
Login di akun heroku yang telah dibuat \rightarrow klik New di pojok kanan atas \rightarrow pilih Create new app \rightarrow tulis appname bebas boleh apapun itu (disini saya menuliskan prissylinreg) \rightarrow region tetap United States \rightarrow terakhir Create app.







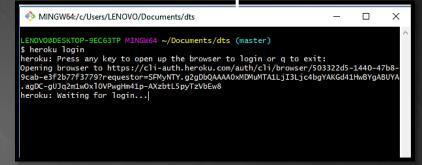
Buka Git Bash dari folder yang berisi model dengan cara klik kanan \rightarrow pilih Git Bash \rightarrow lalu ketikkan perintah "heroku login" \rightarrow klik enter \rightarrow akan muncul perintah dengan akhiran to exit \rightarrow klik enter lagi \rightarrow tunggu beberapa saat hingga muncul laman log in to your account dan masuk ke dashboard heroku.

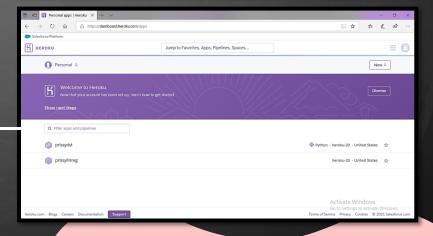


Folder berisi model

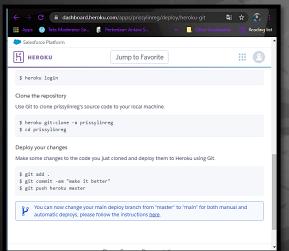
Dashboard heroku

Tampilan Git Bash ←





Setelah dashboard heroku terbuka, maka di Git Bash akan muncul keterangan "Logging in done" \rightarrow klik Ctrl + C \rightarrow ketik Y \rightarrow enter \rightarrow ketik git init \rightarrow enter \rightarrow ketik heroku git:remote –a prissylinreg \rightarrow enter \rightarrow ketik git add \rightarrow enter \rightarrow ketik git commit –am "upload kedua" \rightarrow enter \rightarrow ketik git push heroku master \rightarrow enter (kode perintah terdapat di bagian deploy app name yang telah dibuat).

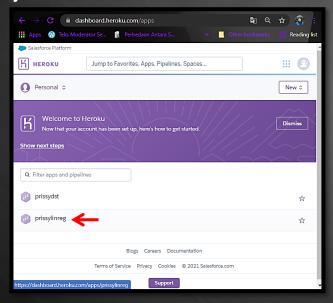


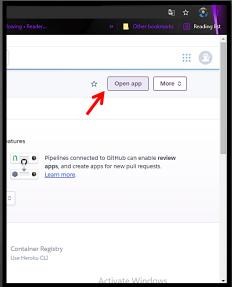
```
MINGW64:/c/Users/LENOVO/Documents/dts
 ENOVO@DESKTOP-9EC63TP MINGW64 ~/Documents/dts (master)
heroku: Press any key to open up the browser to login or q to exit:
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/503322d5-1440-47b8-
9cab-e3f2b77f3779?requestor=SFMyNTY.g2gDbQAAAAOxMDMuMTA1LjI3Ljc4bgYAKGd41HwBYgABUYA
 .agDC-gUJq2m1w0x10VPwgHm41p-AXzbtL5pyTzVbEw8
heroku: Waiting for login...
Logging in... done
Logged in as prissynusaiba12@gmail.com
^CTerminate batch job (Y/N)? Y
LENOVO@DESKTOP-9EC63TP MINGW64 ~/Documents/dts (master)
Reinitialized existing Git repository in C:/Users/LENOVO/Documents/dts/.git/
LENOVO@DESKTOP-9EC63TP MINGW64 ~/Documents/dts (master)
$ heroku git:remote -a prissylinreg
set git remote heroku to https://git.heroku.com/prissylinreg.git
LENOVO@DESKTOP-9EC63TP MINGW64 ~/Documents/dts (master)
$ git add .
LENOVO@DESKTOP-9EC63TP MINGW64 ~/Documents/dts (master)
$ git commit -am "upload kedua"
On branch master
nothing to commit, working tree clean
 LENOVO@DESKTOP-9EC63TP MINGW64 ~/Documents/dts (master)
 S git push heroku master
```

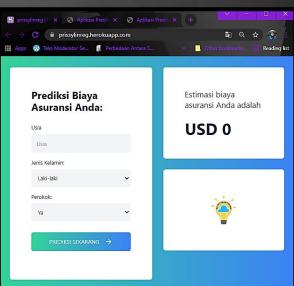
```
MINGW64:/c/Users/LENOVO/Documents/dts
                                                                                      - 0
           ---> Installing requirements with pip
                 Downloading Flask-2.0.2-py3-none-any.whl (95 kB)
               Collecting gunicorn
               Downloading gunicorn-20.1.0-py3-none-any.whl (79 kB)
Collecting scikit-learn
                  Downloading scikit_learn-1.0.1-cp39-cp39-manylinux_2_12_x86_64.manylinux2010
x86_64.whl (24.7 MB)
               Collecting itsdangerous>=2.0
               Downloading itsdangerous-2.0.1-py3-none-any.whl (18 k8) Collecting click>=7.1.2
                 Downloading click-8.0.3-py3-none-any.whl (97 kB)
               Collecting Jinja2>=3.0
                 Downloading Jinja2-3.0.2-py3-none-any.whl (133 kB)
               Collecting Werkzeug>=2.0
remote:
                 Downloading Werkzeug-2.0.2-py3-none-any.whl (288 kB)
                  Downloading joblib-1.1.0-py2.py3-none-any.whl (306 kB)
                  Downloading scipy-1.7.1-cp39-cp39-manylinux_2_5_x86_64.manylinux1_x86_64.whl
(28.5 MB)
remote:
               Collecting threadpoolctl>=2.0.0
                 Downloading threadpoolctl-3.0.0-py3-none-any.whl (14 kB)
               Collecting numpy>=1.14.6
                 Downloading numpy-1.21.3-cp39-cp39-manylinux_2_12_x86_64.manylinux2010_x86_6
4.whl (15.7 MB)
remote:
               Collecting MarkupSafe>=2.0
                 Downloading MarkupSafe-2.0.1-cp39-cp39-manylinux2010_x86_64.whl (30 kB)
remote: Installing collected packages: itsdangerous, click, MarkupSafe, Jinja2, Werkze
ug, flask, gunicorn, joblib, numpy, scipy, threadpoolctl, scikit-learn
remote: Successfully installed Jinja2-3.0.2 MarkupSafe-2.0.1 Werkzeug-2.0.2 click-8.0.
 flask-2.0.2 gunicorn-20.1.0 itsdangerous-2.0.1 joblib-1.1.0 numpy-1.21.3 scikit-learn-1.0.1
scipy-1.7.1 threadpoolctl-3.0.0
         ----> Discovering process types
               Procfile declares types -> web
               Done: 127M
               https://prissylinreg.herokuapp.com/ deployed to Heroku
emote: Verifying deploy... done.
o https://git.heroku.com/prissylingeg.git
                                                          Activate Windows
 " [new branch] master -> master
  NOVOGDESKTOP-9EC63TP MINGW64 ~/Documents/dts (master)
```



Terakhir, cek apakah proses deploy berhasil dengan cara klik app name yang telah dibuat di dalam • dashboard heroku → lalu klik open app di pojok kanan atas → maka akan muncul sebuah web di tab baru jika berhasil.







HASIL DEPLOYMENT



