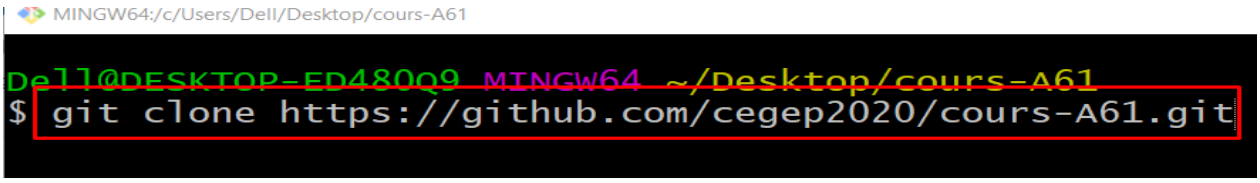
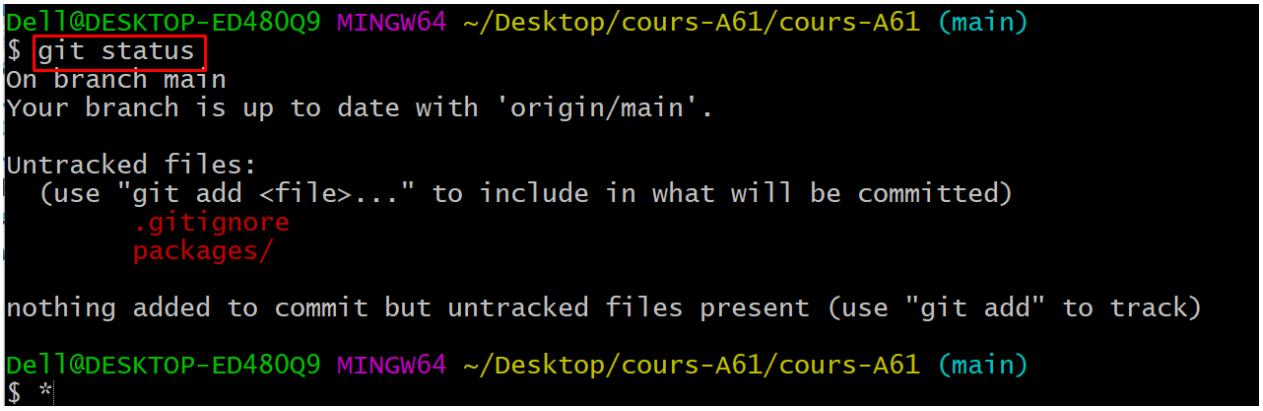
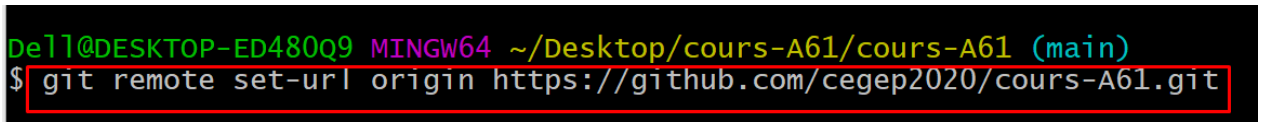
TP-Partie-1

Après avoir créer un depot Github, veuillez cloner le depot comme suit :

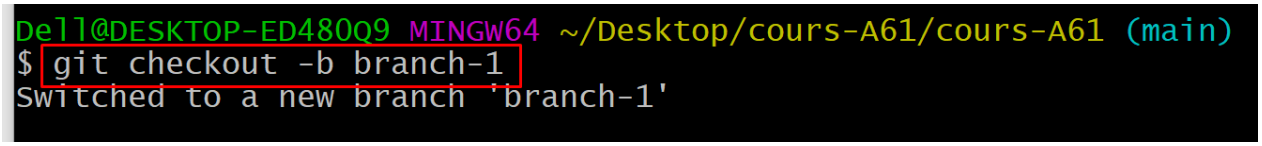


Vérifiez le status de votre dépôt :





Créer une nouvelle branche :



Ouvrir un pull request, comme suit :

```
Dell@DESKTOP-ED480Q9 MINGW64 ~/Desktop/cours-A61/cours-A61 (branch-1)
$ git commit --allow-empty  -m "Ouvrir pull request"
[branch-1 720c068] Ouvrir pull request
 8 files changed, 231 insertions(+)
 create mode 100644 .gitignore
 create mode 100644 packages/regression_model/regression_model/__init__.py
 create mode 100644 packages/regression_model/regression_model/datasets/__init_
_.py
 create mode 100644 packages/regression_model/regression_model/pipeline.py
 create mode 100644 packages/regression_model/regression_model/preprocessors.py
 create mode 100644 packages/regression_model/regression_model/train_pipeline.p
y
 create mode 100644 packages/regression_model/requirements.txt
 create mode 100644 packages/regression_model/tox.ini
```

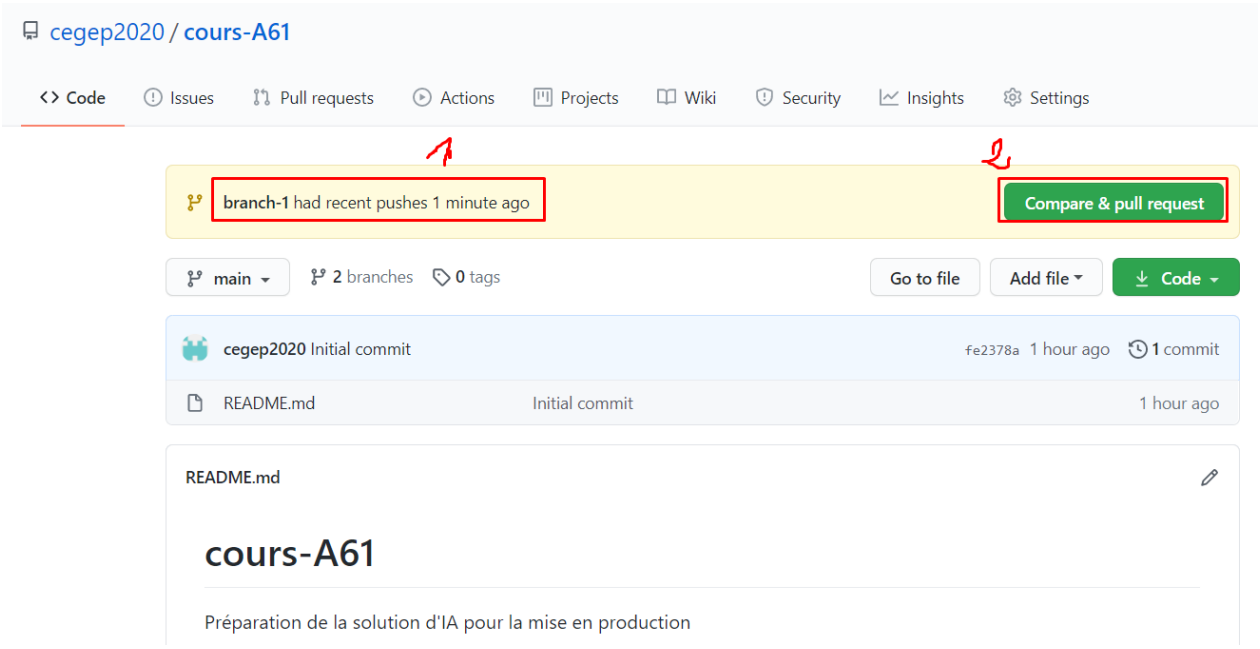
```
Dell@DESKTOP-ED480Q9 MINGW64 ~/Desktop/cours-A61/cours-A61 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   .gitignore
        new file:   packages/regression_model/regression_model/__init__.py
        new file:   packages/regression_model/regression_model/datasets/__init_
_.py
        new file:   packages/regression_model/regression_model/pipeline.py
        new file:   packages/regression_model/regression_model/preprocessors.py
        new file:   packages/regression_model/regression_model/train_pipeline.p
y
        new file:   packages/regression_model/requirements.txt
        new file:   packages/regression_model/tox.ini
```

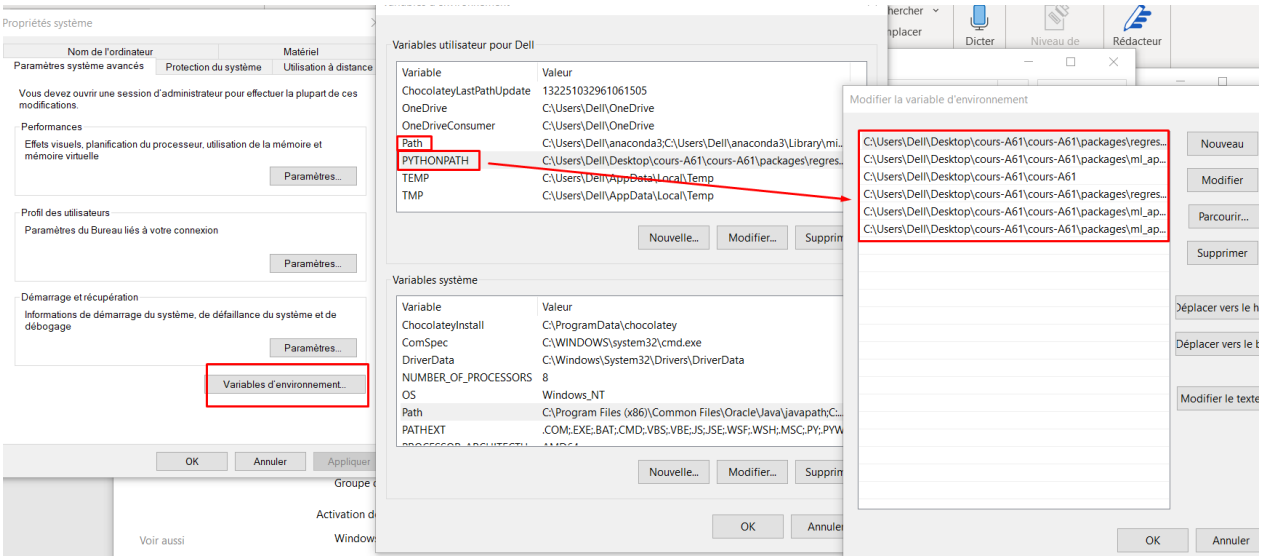
Puis, pousser votre deport vers github

```
Dell@DESKTOP-ED480Q9 MINGW64 ~/Desktop/cours-A61/cours-A61 (branch-1)
$ git push origin branch-1
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 8 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (13/13), 3.26 KiB | 1.63 MiB/s, done.
Total 13 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'branch-1' on GitHub by visiting:
remote:      https://github.com/cegep2020/cours-A61/pull/new/branch-1
remote:
To https://github.com/cegep2020/cours-A61.git
 * [new branch]      branch-1 -> branch-1
```

Visitez github



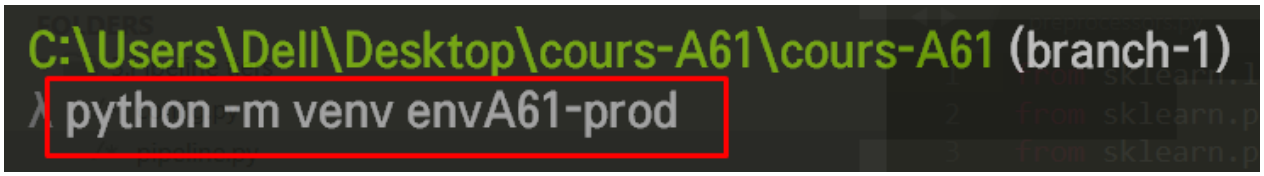
Définir les variables d'environnements :



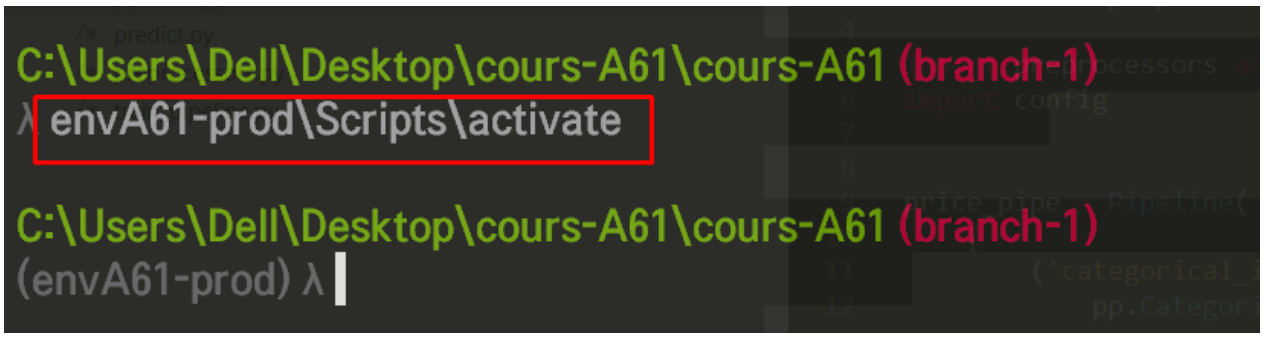
Créez un environnement virtuel, comme suit :

```
python -m venv enA61-prod
envA61-prod\Scripts\activate
python -m pip install --upgrade pip
pip install -r requirements.txt
```

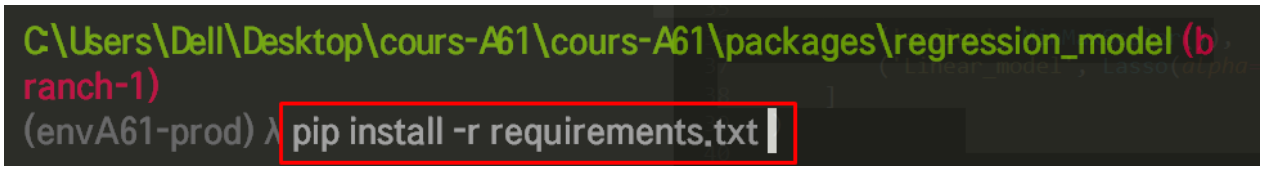
Comme le montre les captures d'écrans ci-dessous :



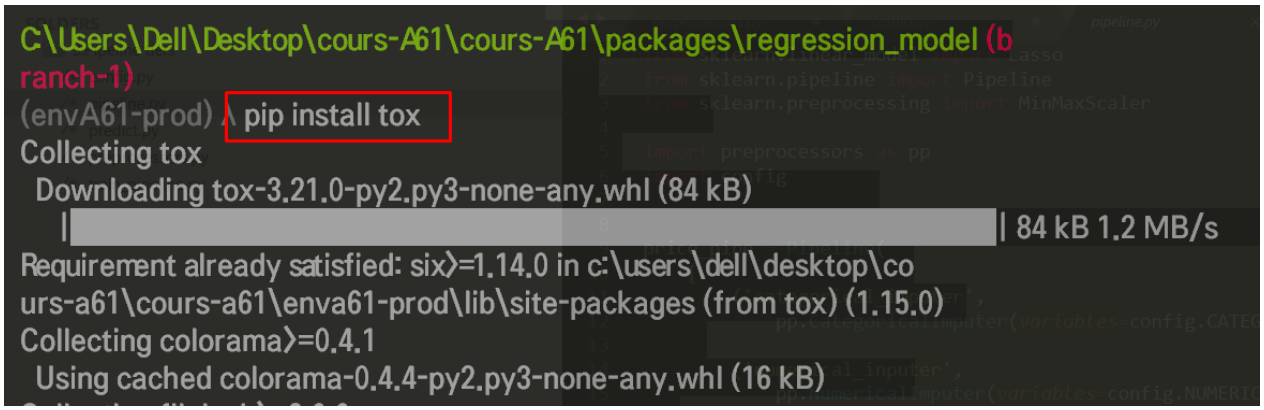
Activez votre env



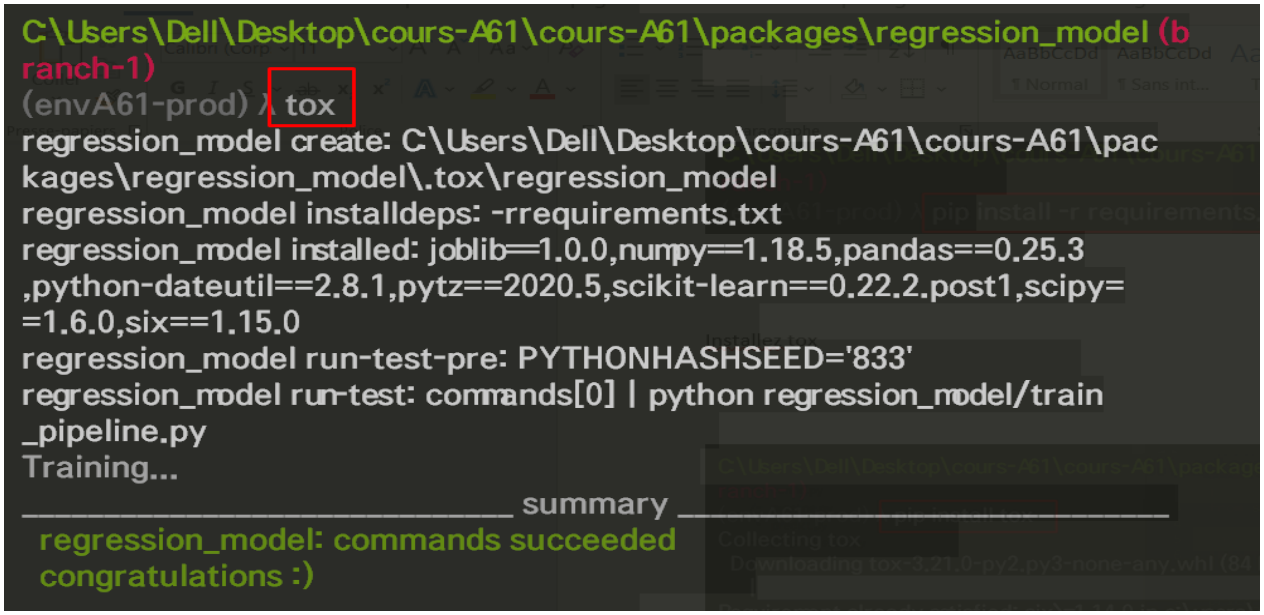
Installer les modules necessaires



Installer **tox**



Lancez tox comme suit,



Partie-2-- pipeline au complet

Après avoir modifier les fichiers en local

```
(envA61-prod) λ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory
)
        modified:   ../../.gitignore
        modified:   regression_model/pipeline.py
        modified:   regression_model/train_pipeline.py
        modified:   requirements.txt
        modified:   tox.ini

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        ../../envA61-prod/
        regression_model/config/
        regression_model/processing/
        regression_model/trained_models/

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\Dell\Desktop\cours-A61\cours-A61\packages\regression_model (m
ain)
(envA61-prod) λ
```

Ajouter les fichiers a index(Staging area)

```
C:\Users\Dell\Desktop\cours-A61\cours-A61\packages\regression_model (m
ain)
(envA61-prod) λ git add .
```

Vérifier le status

```
C:\Users\Dell\Desktop\cours-A61\cours-A61 (main)
(envA61-prod) λ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
 (use "git restore --staged <file>..." to unstage)
        new file:   envA61-prod/Scripts/Activate.ps1
        new file:   envA61-prod/Scripts/activate
        new file:   envA61-prod/Scripts/activate.bat
        new file:   envA61-prod/Scripts/deactivate.bat
        new file:   envA61-prod/Scripts/easy_install-3.8.exe
        new file:   envA61-prod/Scripts/easy_install.exe
        new file:   envA61-prod/Scripts/f2py.exe
        new file:   envA61-prod/Scripts/pip.exe
        new file:   envA61-prod/Scripts/pip3.8.exe
        new file:   envA61-prod/Scripts/pip3.exe
```

Commit

```
C:\Users\Dell\Desktop\cours-A61\cours-A61 (main)
(envA61-prod) λ git commit -m "Ajout de pipeline au complet"
[main bbe8649] Ajout de pipeline au complet
 24 files changed, 876 insertions(+), 62 deletions(-)
 create mode 100644 envA61-prod/Scripts/Activate.ps1
 create mode 100644 envA61-prod/Scripts/activate
 create mode 100644 envA61-prod/Scripts/activate.bat
 create mode 100644 envA61-prod/Scripts/deactivate.bat
 create mode 100644 envA61-prod/Scripts/easy_install-3.8.exe
 create mode 100644 envA61-prod/Scripts/easy_install.exe
 create mode 100644 envA61-prod/Scripts/f2py.exe
 create mode 100644 envA61-prod/Scripts/pip.exe
 create mode 100644 envA61-prod/Scripts/pip3.8.exe
 create mode 100644 envA61-prod/Scripts/pip3.exe
 create mode 100644 envA61-prod/Scripts/python.exe
 create mode 100644 envA61-prod/Scripts/pythonw.exe
 create mode 100644 envA61-prod/Scripts/tox-quickstart.exe
 create mode 100644 envA61-prod/Scripts/tox.exe
 create mode 100644 envA61-prod/Scripts/virtualenv.exe
```

Pousser vers de depot:

```
C:\Users\Dell\Desktop\cours-A61\cours-A61 (main)
(envA61-prod) λ git push -u origin main
Enumerating objects: 33, done.
Counting objects: 100% (33/33), done.
Delta compression using up to 8 threads
Compressing objects: 100% (26/26), done.
Writing objects: 100% (27/27), 398.76 KiB | 7.12 MiB/s, done.
Total 27 (delta 7), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (7/7), completed with 1 local object.
To https://github.com/cegep2020/cours-A61.git
   720c068..bbe8649  main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
```

Executer les tests.

```
C:\Users\Dell\Desktop\cours-A61\cours-A61\packages\regression_model (b
ranch-2)
(envA61-prod) λ tox
regression_model installed: joblib==1.0.0,numpy==1.18.5,pandas==0.25.3
,python-dateutil==2.8.1,pytz==2020.5,scikit-learn==0.22.2.post1,scipy=
=1.6.0,six==1.15.0
regression_model run-test-pre: PYTHONHASHSEED='156'
regression_model run-test: commands[0] | python regression_model/train
_pipeline.py
saved pipeline
_____ summary _____
  regression_model: commands succeeded
  congratulations :)
```