

Lab 4 : Mise en place d'un pipeline CI/CD complet pour un projet Machine Learning

Étape 1 : Créer le dépôt GitHub et connecter le remote

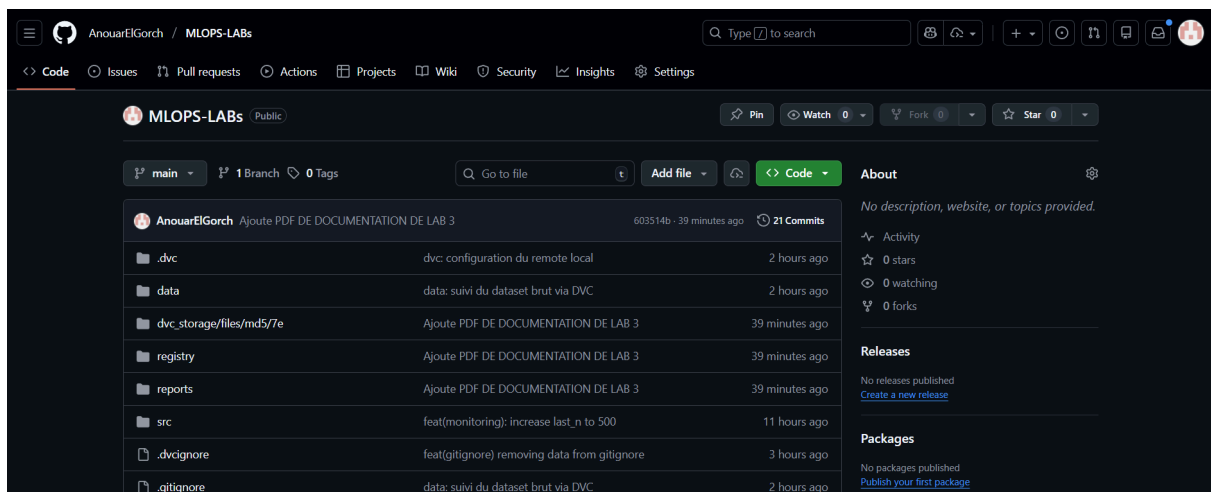
Instructions :

Aller sur GitHub → New Repository → nom : **mlops-lab-01** Copier l'URL HTTPS du dépôt.

- Aller sur GitHub → New Repository → nom : **mlopslab-01**
- Copier l'URL HTTPS du dépôt.

Connecter :

```
git remote add origin https://github.com/<USER>/mlops-lab-01.git
git branch -M main
git push -u origin main
```



Étape 2 : Définir les secrets GitHub

Instructions :

Aller dans :

GitHub → Repository → Settings → Secrets and Variables → Actions → New repository secret

Actions secrets and variables

Secrets and variables allow you to manage reusable configuration data. Secrets are **encrypted** and are used for sensitive data. [Learn more about encrypted secrets](#). Variables are shown as plain text and are used for **non-sensitive** data. [Learn more about variables](#).

Anyone with collaborator access to this repository can use these secrets and variables for actions. They are not passed to workflows that are triggered by a pull request from a fork.

Secrets

Variables

Environment secrets

This environment has no secrets.

Manage environment secrets

Repository secrets

This repository has no secrets.

New repository secret

Créer les secrets suivants :

```
PY_VERSION = 3.10 #variable  
F1_GATE_THRESHOLD = 0.70 #variable  
DEMO_SECRET = "CI/CD demo secret for students" #secret  
APP_ENV = staging #variable
```

Secrets Variables

Environment variables

This environment has no variables.

Manage environment variables

Repository variables New repository variable

Name ↕	Value	Last updated
APP_ENV	staging	now
F1_GATE_THRESHOLD	0.70	1 minute ago
PY_VERSION	3.10	1 minute ago

Secrets Variables

Environment secrets

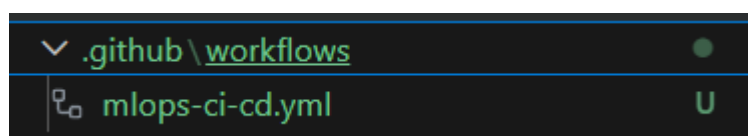
This environment has no secrets.

Manage environment secrets

Repository secrets New repository secret

Name ↕	Last updated
DEMO_SECRET	now

Étape 3 : Créer le workflow CI/CD

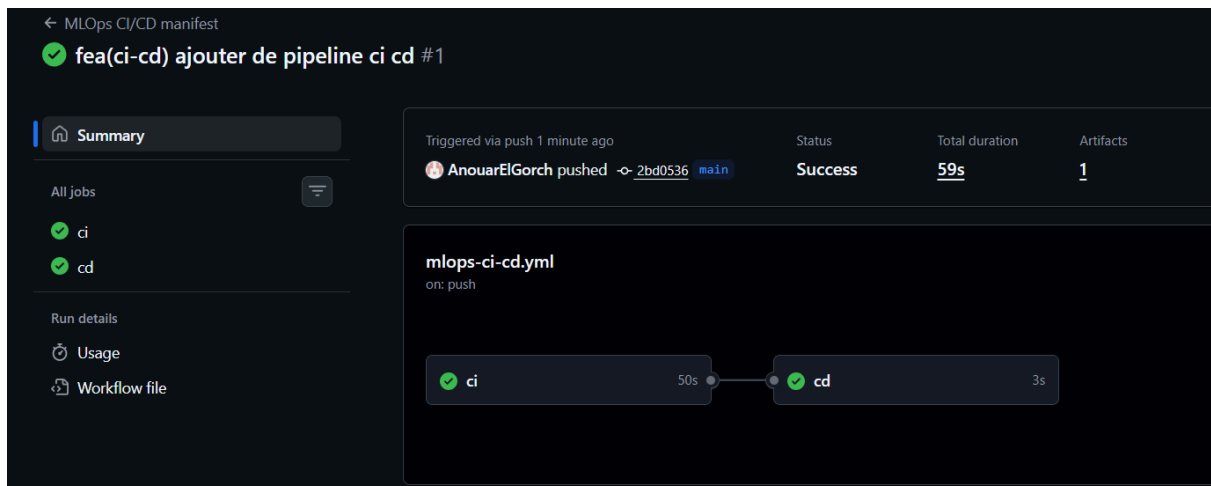


Étape 4 : Commit et push

Instructions :

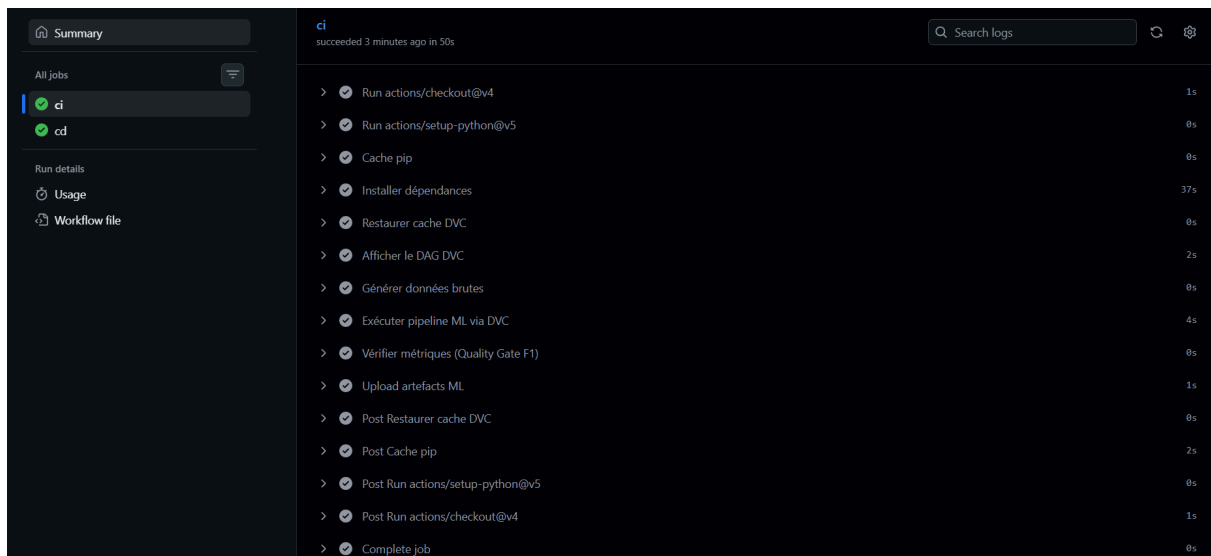
Aller dans :

GitHub → Actions

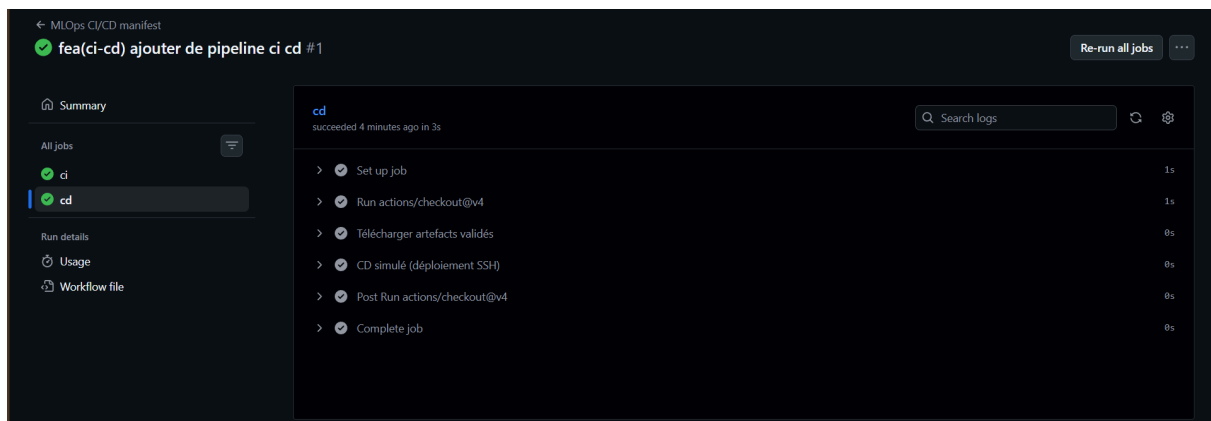


Vérifier :


- job **ci** : doit installer Python, exécuter les scripts, uploader les artefacts



- job **cd** : uniquement sur **main**, doit simuler un déploiement SSH



Artifacts Produced during runtime

Artifacts			
Produced during runtime			
Name	Size	Digest	
 ml-artifacts	6.67 KB	sha256: f72e8f94952d7dee059e72de7c54a22d3a44b54d93...	