Formation MLOps

Environnement Setup

1. Installer environnement Anaconda Python

https://www.anaconda.com/products/distribution

Wind OS : Exe

Mac OS : dmg

Linux : sh

$ sha256sum Anaconda3–2020.02–Linux–x86\_64.sh

$ bash Anaconda3-2020.02-Linux-x86\_64.sh

$ source ~/.bashrc

Win OS : Anaconda Prompt -> jupyter notebook

Mac OS & ubuntu OS : Terminal -> jupyter notebook

2. Creation d'un environnement

$ conda create -n mlops python=3.10 anaconda

$ conda activate mlops

3. Installer les bibliothèques requirements.txt

$ pip install -r requirements.txt

4. Installer Git

https://git-scm.com/downloads

Wind OS : Exe

Mac OS :

Installer homebrew puis git:

$ /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/

install.sh)"

$ brew install git

Ubuntu OS :

$ sudo apt-get install git

5. Créer un compte DagsHub

https://dagshub.com

Create New repository -> mlops (prive)

6. Installer VSCode

https://code.visualstudio.com/

Mac OS & Win OS : dmg & exe

Ubuntu OS : sh

$ sudo apt-get install ./vscode.sh

Installer les extensions : Python + Jupyter + Docker & Dev Containers (une fois docker installer,

voir Etape 7)

7. Docker Desktop

https://docs.docker.com/ -> Download & install

Wind OS : Exe

Mac OS : dmg

Ubuntu OS : deb

Avant d'installer le fichier deb, on installe docker engine

$ sudo apt-get remove docker docker-engine docker.io containerd runc

$ sudo apt-get update

$ sudo apt-get install \

ca-certificates \curl \

gnupg

$ sudo install -m 0755 -d /etc/apt/keyrings

$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/

keyrings/docker.gpg

$ sudo chmod a+r /etc/apt/keyrings/docker.gpg

$ sudo apt-get update

$ sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-

compose-plugin

$ sudo docker run hello-world

Installer Docker desktop :

$ sudo apt-get install ./docker.sh

Lancer Docker Desktop et terminal :

docker run -d -p 80:80 docker/getting-started