## **Pre-requisites setup**

### **1. WSL setup**

* Install wsl using Command line (running windows PowerShell as administrator),
  + wsl –install (Don’t run this command as this will install latest Ubuntu version)
  + wsl --install -d Ubuntu-22.04 (Run this command)
* Open ubuntu wsl
  + if WslRegisterDistribution failed with error: 0x8004032d ubuntu Error: 0x8004032d (null)
  + In Windows Search Bar, look for "Turn Windows features on or off". Launch it and scroll down until you find "Windows Subsystem for Linux". You'll find it not checked, so you need to check it. Then, your PC will ask your for a reboot. After this, try to launch Ubuntu again and it should work just fine.

### **Close PowerShell**

### **Ubuntu will be installed, run Ubuntu as administrator and follow the below steps**

### **2. Anaconda/Miniconda setup in WSL**

### Create a directory to install minicaonda in

* + mkdir -p ~/miniconda3
* Download latest miniconda version
  + wget https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86\_64.sh -O ~/miniconda3/miniconda.sh
* Run the install script
  + bash ~/miniconda3/miniconda.sh -b -u -p ~/miniconda3
* Delete the intall script
  + rm -rf ~/miniconda3/miniconda.sh
* Add a conda initialize to your bash
  + ~/miniconda3/bin/conda init bash

(If asked to restart, then restart Ubuntu)

* Verify the installaton
  + conda list

### **3. Apt-get install in WSL for media codecs support**

* sudo apt update
* sudo apt install ffmpeg
* sudo apt install gstreamer1.0-plugins-bad gstreamer1.0-plugins-ugly
* Check if ffmpeg code supports AV1: ffmpeg -codecs | grep av1

### **4. Other apt-get installs in WSL**

* sudo apt update
* sudo apt install git-lfs for git large files support. Huggingface needs this. <https://git-lfs.com/>
* Then do git lfs install
* The files tracked by git-lfs are pattern based. If you have a git-lfs repo, you can issue a command git lfs track and find. To add a new file pattern to track, say a zip, you can do git lfs track \*.zip. Then add the .gitattributes file that git lfs track modifies to your repository as follows: git add .gitattributes. In our case this step is not essential as the hugging face lfs repo setup automatically with zip as one of the tracked large file patterns (This is relevant when storing ML models in hugging face repository. You can ignore it for now)

**Nginx Installation:**

Follow the instructions given in the site below and install Nginx in your WSL.

<https://ubuntu.com/tutorials/install-and-configure-nginx#1-overview>