1- Data preparation

a) A zip file called QIAI-FL.zip will be shared with you
b) Extract the zip file by right clicking on it and selecting extract
c) Create three Excel files named train.csv, val.csv, and test.csv containing these two columns: "*Directory*" and "*Label*" and put them inside the data directory
Example of csv file:

	A	B
1	Directory	Label
2	CNV/1/000_Drusen.jpg	DRUSEN
3	CNV/1/001_Drusen.jpg	DRUSEN
4	CNV/1/002_Drusen.jpg	DRUSEN
5	CNV/1/003_Normal.jpg	NORMAL
6	CNV/1/004_Normal.jpg	NORMAL
7	CNV/1/005_Drusen.jpg	DRUSEN
8	CNV/1/006_Normal.jpg	NORMAL
9	CNV/1/007_Normal.jpg	NORMAL
10	CNV/1/008_Drusen.jpg	DRUSEN
11	CNV/1/009_Drusen.jpg	DRUSEN
12	CNV/1/010_Drusen.jpg	DRUSEN

Other information can also be provided; however the csv file must contain the two mentioned columns.

2- Install Python

a) Go to the Python website using this link

b) Download Python 3.12.7

c) Right click on the installer and select “Run as Administrator”. Make sure to check the box that says “Add Python to PATH” before clicking “Install Now”.

d) Make sure the python has been installed successfully by opening the terminal (CMD) and entering: python –version

3- Creating a Python Virtual Environment:

a) Open Command Prompt:

- Press the Windows key + R on your keyboard
- Type cmd and press Enter

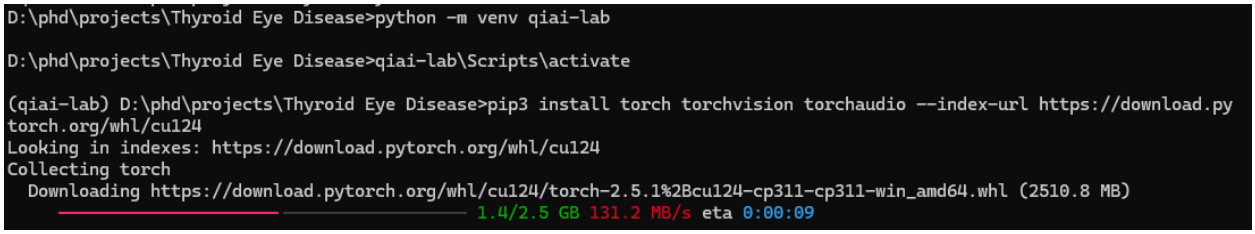
b) Navigate to the project we shared with you

- In the Command Prompt window, type cd followed by the path to your project folder (in example below the path is D:\phd\projects\Thyroid Eye Disease)
- Press Enter

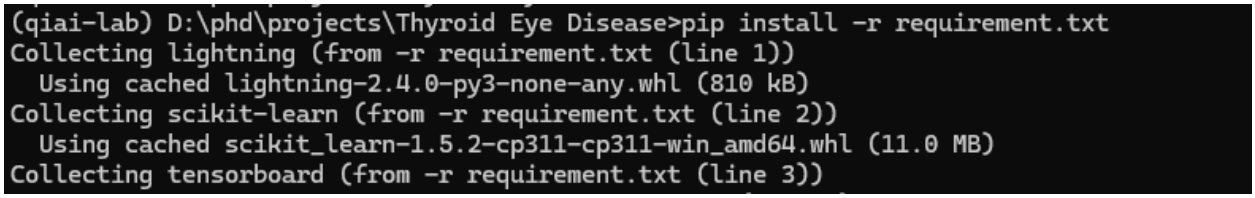
c) Create the virtual environment and install packages using the following commands:

- Type “python -m venv qiai-lab” and press Enter (qiai-lab is the name of the virtual python environment. You can any arbitrary name)
- Then type “qiai-lab\Scripts\activate” and press Enter
- You should see (qiai-lab) at the beginning of your command prompt line. This means the virtual environment is active
- Install pytorch library using the command:

“pip3 install torch torchvision torchaudio --index-url https://download.pytorch.org/whl/cu124”



- Ensure you have the requirements.txt file in your project folder
- In the Command Prompt, type “pip install -r requirements.txt” and press Enter



4- Run the program

a) Navigate to the project folder using cd command.
b) Activate the virtual environment:
a. Type “python -m venv qiai-lab” and press Enter.
c) Open the terminal and enter:
a. Python “train_local.py”