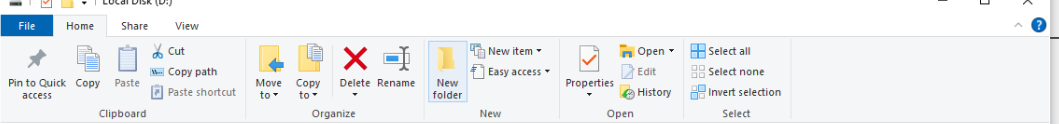
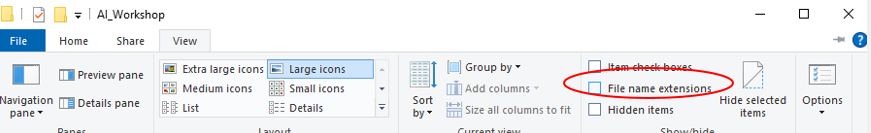
**Hands-on AI and Machine Learning workshop**

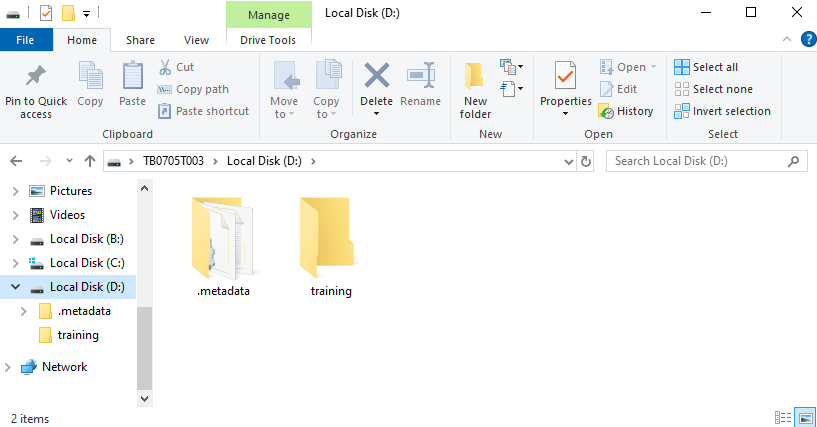
**Department of Computer Science**

*****Part A: Training a model using an online tool (Teachable Machine)***

**STEP 1: Preparing the data (image files) 準備資料 (圖片檔案)**

1. On your Windows Desktop, click on the name of your computer on the upper left corner.
2. Graphical user interface, application

   Description automatically generatedGo to  **Local Disk (D:)**.
3. Press **Control -F1** on your keyboard. The following menu will appear.
4. Enable “File name extensions”, select **Large icons** (click it).
5. On your D: drive, create a new folder named **training.**



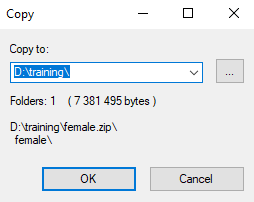
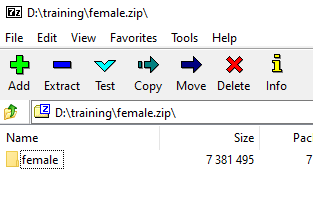
Open a browser (e.g., Chrome), and go to our **Workshop Webpage** <https://cs.hsu.edu.hk/workshop/>

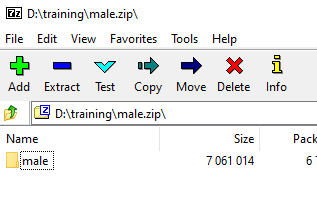
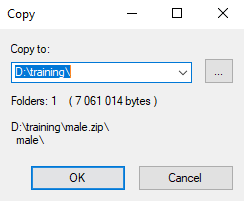
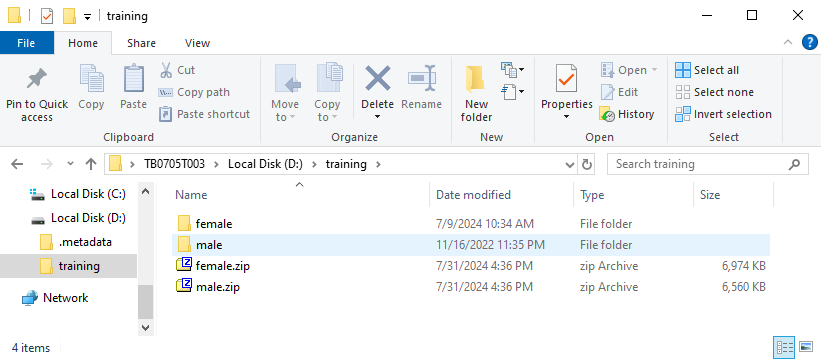
A close up of a sign

Description automatically generatedUnder the **Female and Male Images** session, **right click** on **female.** Save the compressed file into the *training* folder that you have created above.



1. On Windows, double click on the compressed file you have downloaded. The following will appear.

Click **Extract.** You should have a folder of female images.

1. Repeat steps 5 and 6 for the **male** files.
2. Your *training* folder should look like this

**STEP 2: Train a Model online 網上訓練一個模型**

1. Return to our **Workshop Webpage**.

Text

Description automatically generated with medium confidence<https://cs.hsu.edu.hk/workshop/>

1. Click on **Machine Learning with Teachable Machine**

Graphical user interface, text, application, chat or text message

Description automatically generated

1. Select **Image Project** on the Teachable Machine Website

Graphical user interface, application

Description automatically generated

1. Select **Standard image model**
2. A screenshot of a computer

   Description automatically generatedChange the two class labels to **Female** and **Male** respectively
3. Graphical user interface, text, application, Teams

   Description automatically generatedIn the **Female** category, choose **Upload**
4. A collage of images of women

   Description automatically generated Go to your **Female** folder on **Windows**. Select (drag) around 50 to 100 female photos to the **Choose images from your files label.** Those images should then appear on the website. (Note: do not use all images. Leave a few for later steps).

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, chat or text message

Description automatically generated

1. Repeat steps 14 and 15 for the **male** images.
2. Select **Training model** on the Teachable Machine page. Note that this may take a few minutes. Do not leave this page.

Graphical user interface, text, application, chat or text message

Description automatically generated

**STEP 3: Testing the Model 測試模型**

1. After the model is ready. Select **File** in the **Preview** area. Make sure **Input** is **ON**.
2. Drag some of the remaining female/male photos to the model to test it. Are the outputs correct? You may also try to test it with other photos if you like.

A screenshot of a person

Description automatically generated**A person with long hair

Description automatically generated**