--**EDGE**：Files for **edge server**

--BSU\_data: Store histogram files (numpy file: .npy). Folders in it are the histogram files for the specific date. (I generated them before as backups). You can delete all the files in it and generate new data for yourself.

--video: Video dataset

--reID\_image\_test: Store image files for debug.

--EDGE\_video.py：Analyze video file and save person image/histogram of each frame to the specific folder.

--**Gallery**: Store person histograms in gallery. (numpy file: .npy). You can delete all the files in it and generate new data for yourself.

--CLOUD\_data\_process\_Xperson.py: Compared the numpy file in gallery with file in BSU\_data to generate the trajectory of the person.

--CLOUD\_predict\_4cam/6cam.py: It generates all the csv files:

2\_14\_54\_person\_0.csv/2\_14\_54\_person\_0\_full.csv/2\_14\_54\_person\_0\_ML.csv

--CLOUD\_ML.py: It trains the Decision Tree model by the training data and do the prediction for the testing data. Finally calculate the accuracy.

Step 0: Follow the website: <https://github.com/allanzelener/YAD2K> to install the person detection environment.

Step 1: Modify the EDGE\_video.py and run it. You may need to run it several times for generating enough data.

Step 2: Choose appropriate .npy file and copy it into Gallery. (Also, you could write a .py file to automatically choose the .npy into Gallery.

Step 3: Modify the CLOUD\_data\_process\_Xperson.py and run it.

Step 4: Modify the CLOUD\_predict\_4cam/6cam.py and run it.

Step 5: Modify the CLOUD\_ML.py and run it.