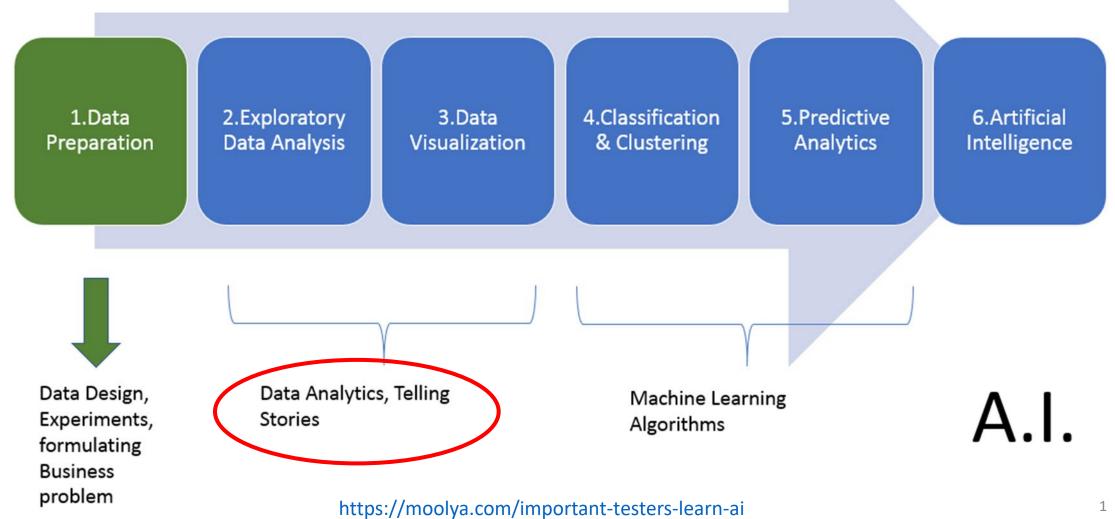
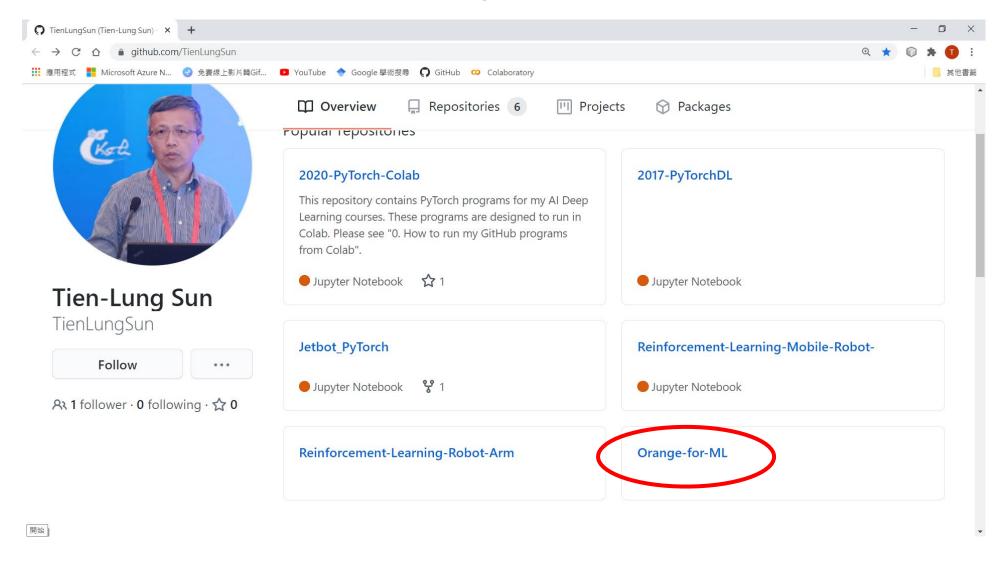
#### HI before Al

Interactively visualize and explore your data before Al



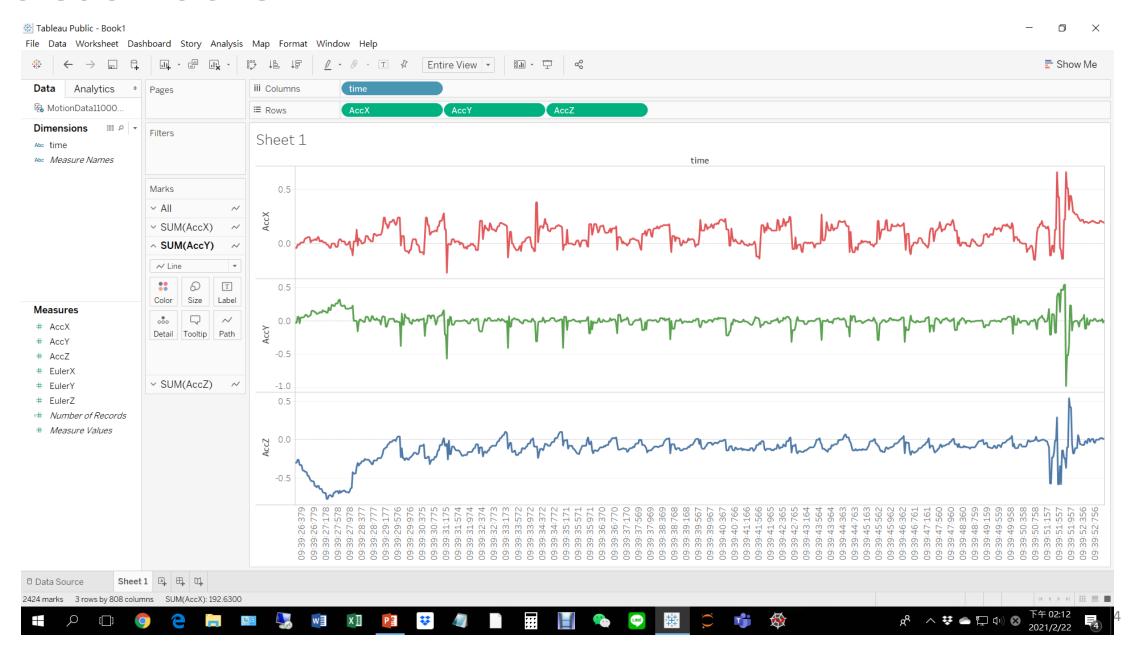
# Download data files from my GitHub



## Interactively visual exploration – (1) Tableau Public



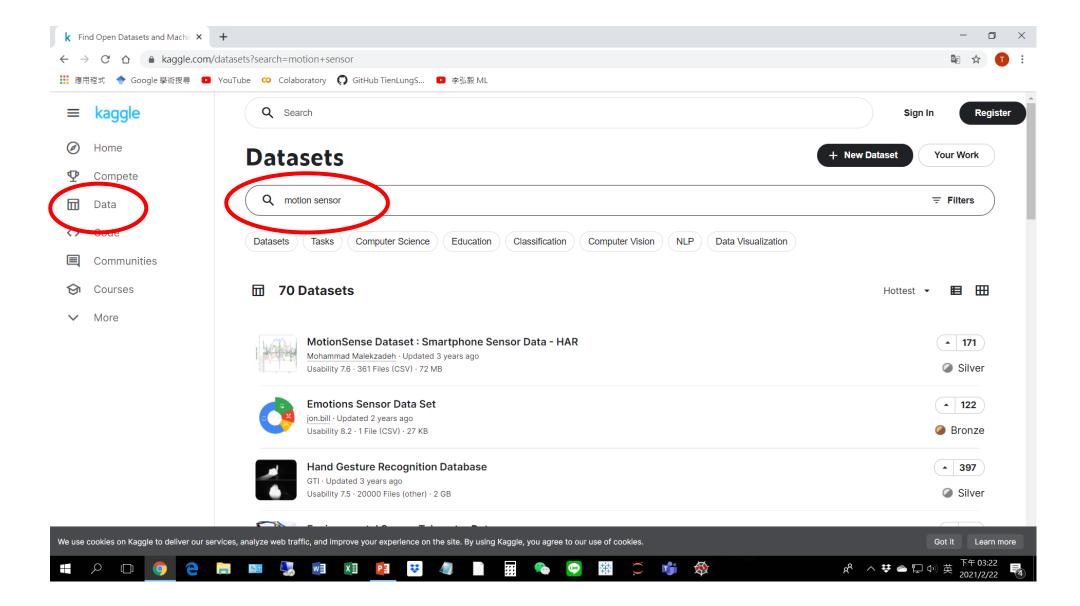
#### Tableau Public



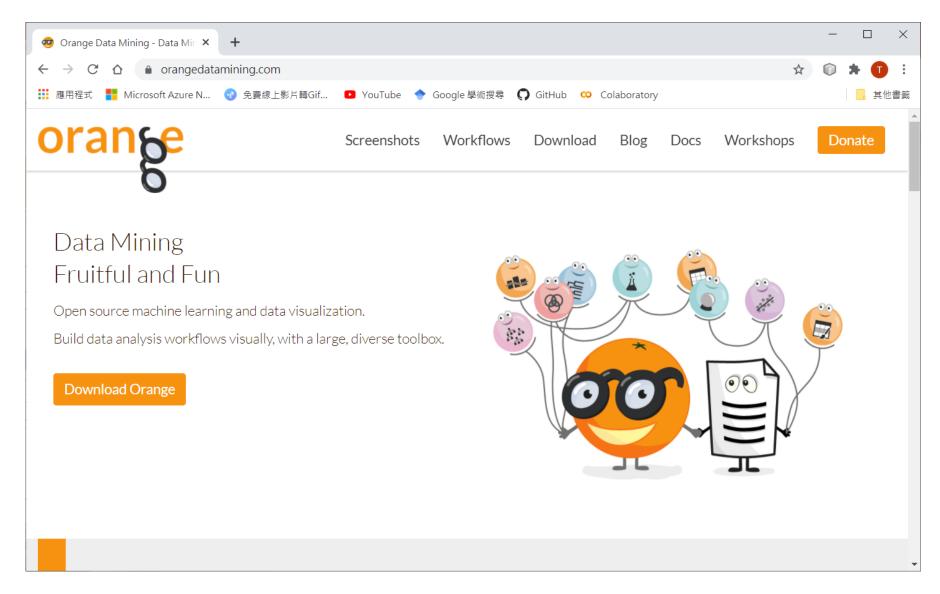
#### Practice – Tableau public

- 1. Download and install Tableau Public
- 2. Visualize the motion data file
- 3. Search Kaggle (<a href="https://www.kaggle.com/">https://www.kaggle.com/</a>) to find a sensor data file (see next slide)
- 4. Use Tableau public to visualize the data file

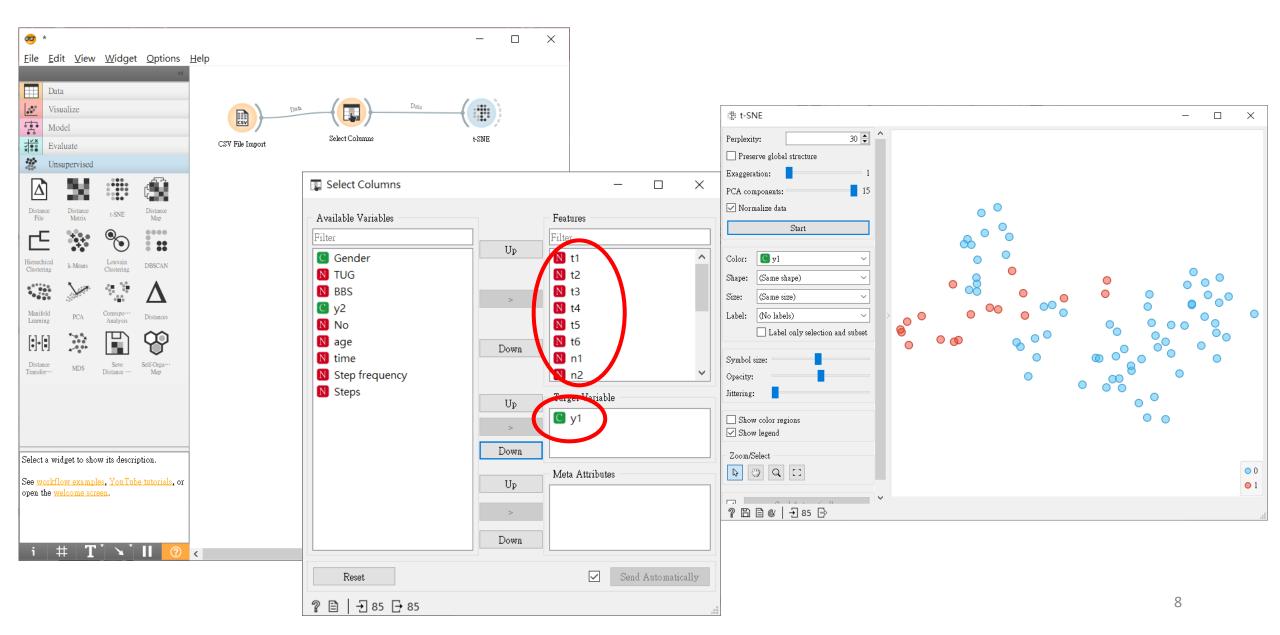
## Kaggle



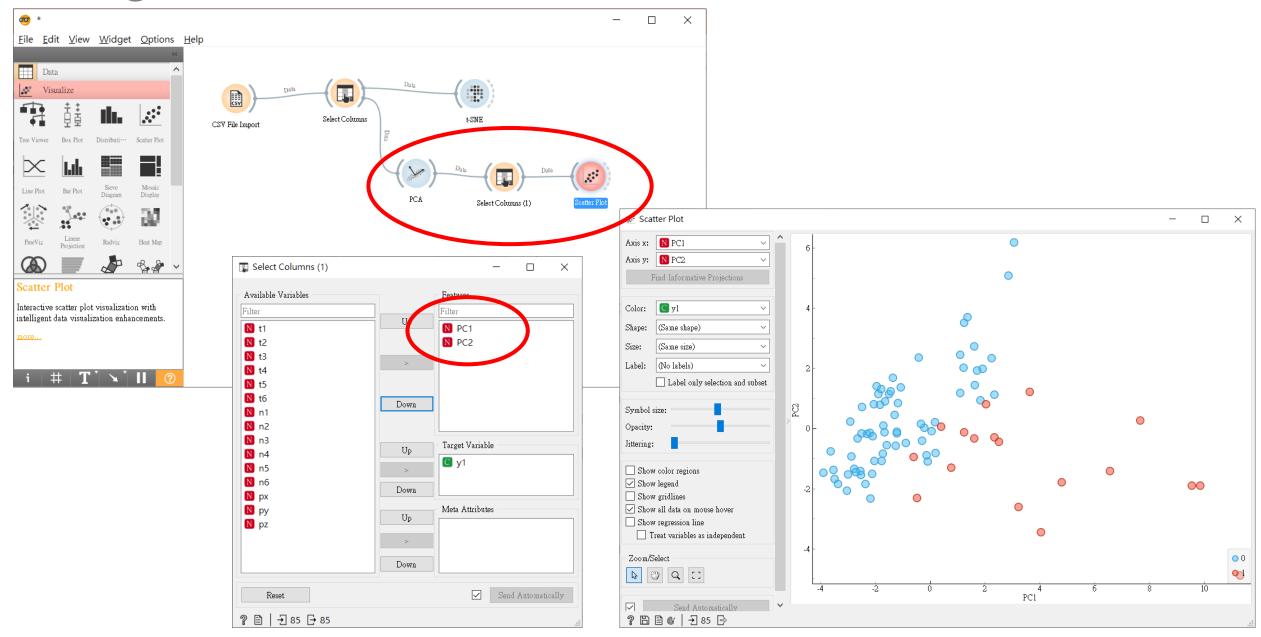
## Interactively visual exploration – (2) Orange



# Orange



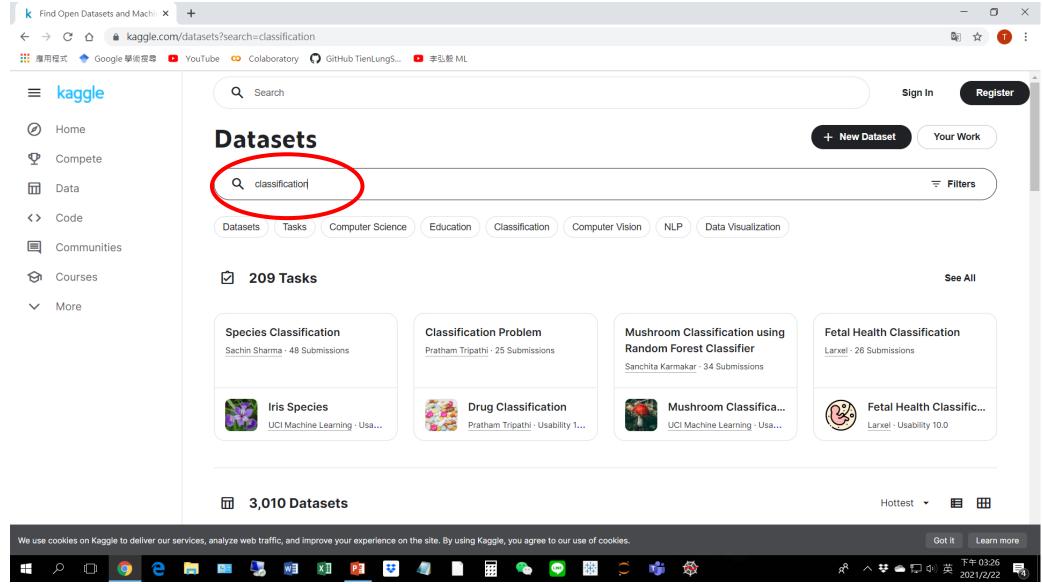
#### Orange



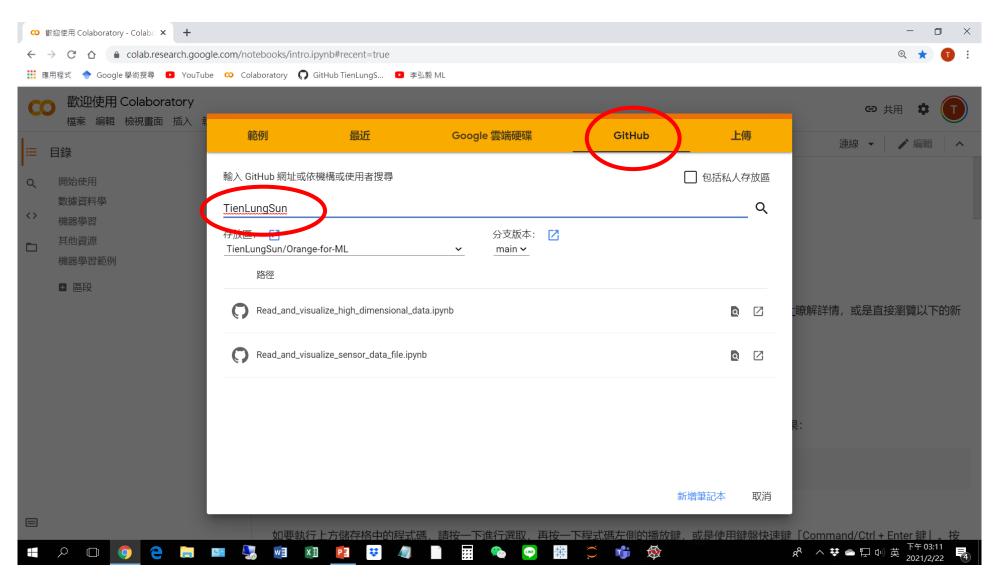
## Practice – Orange

- 1. Download and install Orange
- 2. Visualize the 3M TUG data file
- 3. Search Kaggle to find a classification data file
- 4. Use Orange to visualize the high dimensional data

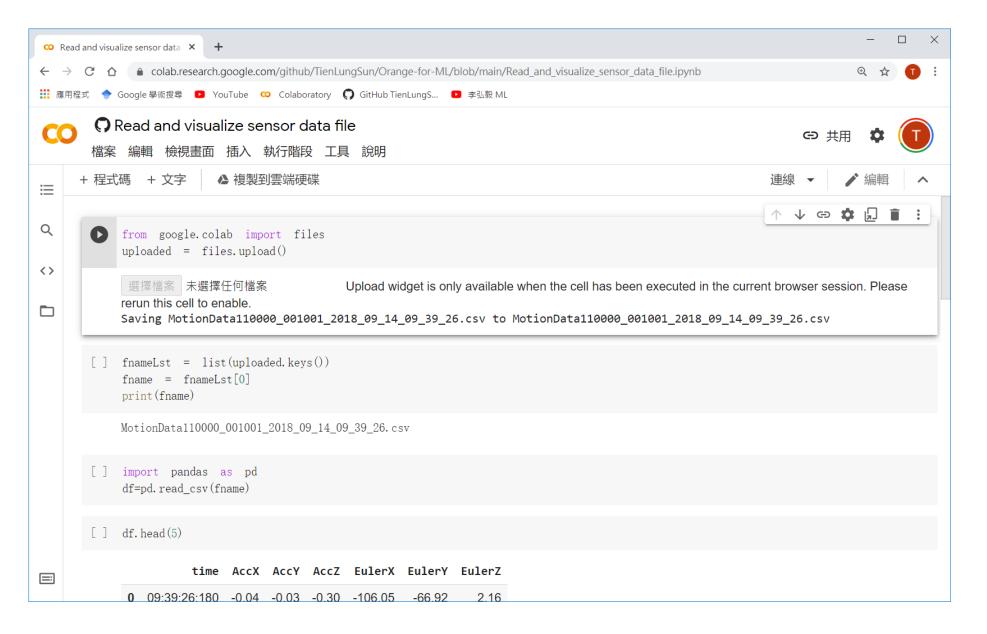
# Kaggle



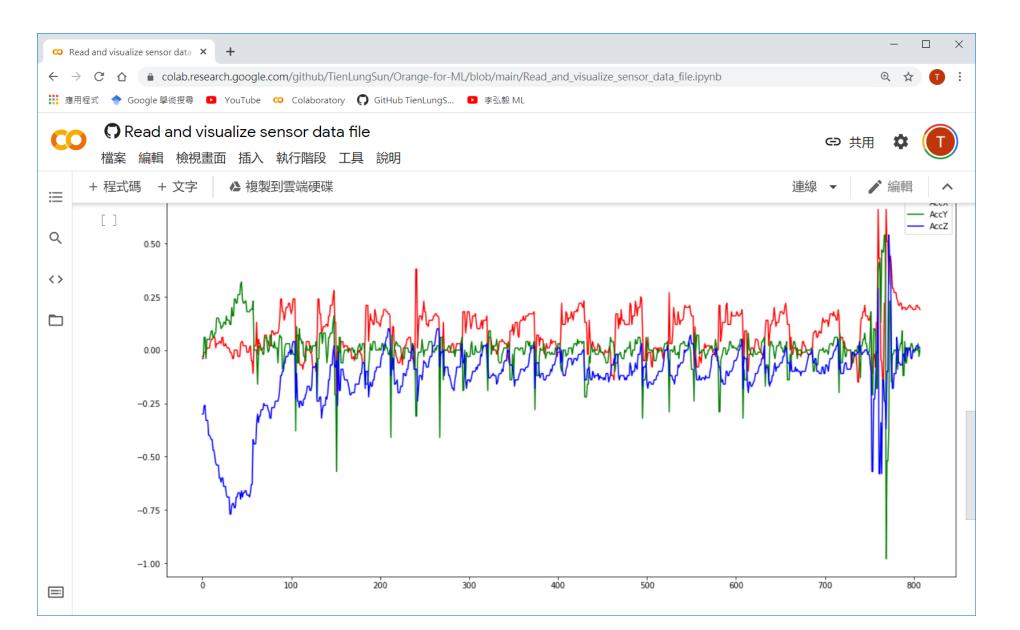
# Data visualization – (3) Python coding



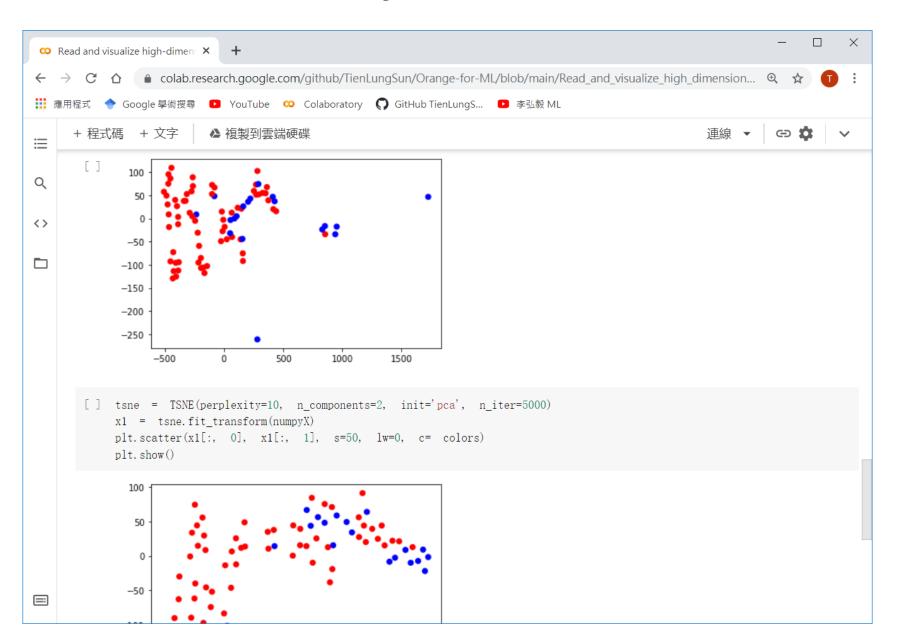
# Data visualization with Python



# Data visualization with Python



# Data visualization with Python



# Practice – Python coding

- 1. Log in to Colab
- 2. Run python code to visualize the motion sensor data file
- 3. Run python code to visualize the 3M TUG data file
- 4. Run python code to visualize the two data files you download from Kaggle