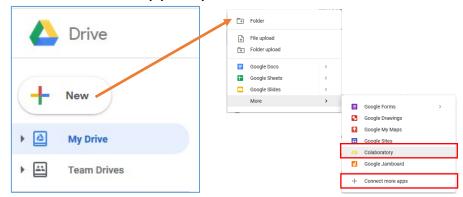
Short Course on Deep Learning and Convolutional Neural Network, VIT Chennai

Day 1: Lab-1

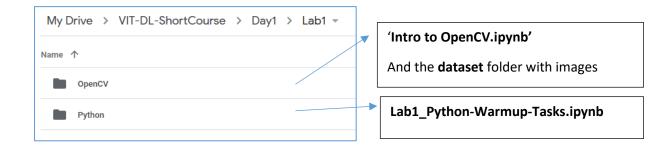
Instructions:

Setup Google Colab and Google Drive:

- -Login to your Google Drive using your email address
- Click 'New' to add 'Colaboratory' App if it is not already added. Use 'Connect more apps' option to add 'Colab'



- Under 'My Drive', create a folder named "VIT-DL-ShortCourse"
- Under "VIT-DL-ShortCourse" folder, create a folder named "Day1/Lab1"
- From GitHub (https://github.com/nabinsharmaUTS/VIT-DL-ShortCourse), download the Python and OpenCV task notebooks and dataset, upload them to "Lab-1/Python" and "Lab-1/OpenCV" folder on your Google Drive. Your GDrive should look like as shown below:



Python Warmup Tasks:

- 1. Task -1: Loops and conditions
- 2. Task -2: Lists
- 3. Task -3: Maths functions
- 4. Task -4: More Maths functions!

Reference materials and self-learning notebooks are also available on GitHub.

OpenCV and Image Processing Introduction:

- 1. Basics of OpenCV library
- 2. Image read, write, and save
- 3. Split image into Red, Green, and Blue channels
- 4. Displaying/plotting images
- 5. Compute Image histogram
- 6. Image binarization and thresholding
- 7. Edge detection basics