Design and implement a CNN model consisting of Skip connection to classify multi category image datasets Image_dataset_1. Use the concept of padding and batch normalization while designing the CNN model. Record the accuracy corresponding to the number of epochs. You must plot loss and accuracies over the epoch for train and validation phase. Finally report the confusion matrix along with precision, recall and F1 score.

Note that, the dataset contains 4 folders, i.e: "image_dataset", "image_dataset_1", "Share_price.csv", "timeSeries". But I want to do work with "Image_Dataset_1".