DSE 3159 Week-4 Batch 3 – Weekly Exercises

Q1. Implement the AlexNet architecture. Train, test and report the performance of this model on the CIFAR-10 dataset, Cats_and_Dogs_Dataset, Horse2Zebra Dataset

Note:

- The Cats_and_Dogs_Dataset can downloaded from:
  https://storage.googleapis.com/mledu-datasets/cats_and_dogs_filtered.zip

- Horse2Zebra Dataset can be downloaded from:
  https://www.kaggle.com/datasets/balraj98/horse2zebra-dataset

Q2. Train, test and report the performances using the following models on the Cats_and_Dogs_Dataset and Horse2Zebra dataset.

1) VGG-16

2) GoogleNet

3) ResNet50

4) EfficientNetB0

5) MobileNetV2