

## **DSE 3159 Week-4 Batch 1 – Weekly Exercises**

**Q1. Implement the AlexNet architecture. Train, test and report the performance of this model on the **Cats\_and\_Dogs\_Dataset, Horse2Zebra Dataset****

Note:

- The Cats\_and\_Dogs\_Dataset can be downloaded from:  
[https://storage.googleapis.com/mledu-datasets/cats\\_and\\_dogs\\_filtered.zip](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