CSX4208 / ITX 4208 Deep Learning

Semester 1/2024

Worksheet#4

Instructions:

- 1) Answer the following questions and make your own note:
 - What is CNN?
 - What is RNN?
- 2) Check the following article out:

https://machinelearningmastery.com/when-to-use-mlp-cnn-and-rnn-neural-networks/

- 3) Answer the following questions:
 - a) What is a convolutional layer?
 - b) What is pooling layer?
 - c) What is the activation function normally used with convolutional layer?
- 4) Make sure that you know the following terms:
 - a) kernel/filter
 - b) sliding windows
 - c) stride
 - d) padding
- 5) The provided link is an example of using CNN to classifying image(s) from CIFAR-10 dataset:

https://www.kaggle.com/code/ektasharma/simple-cifar10-cnn-keras-code-with-88-accuracy

Use this CNN model as a baseline for the improvement.