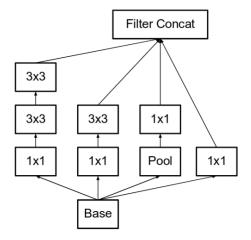
Tutorial Questions | Week 6 COSC2779 - Deep Learning

This tutorial is aimed at reviewing famous CNN architectures. Please try the questions before you join the session.

- 1. The GoogLeNet uses inception modules as the basic building block.
 - (a) Why does inception module have multiple paths?
 - (b) The following diagram shows a variant of the basic inception model called inception V2. What is the main difference of this module compared to the basic inception block? Why is that advantageous?



- (c) What does the auxiliary classifier in the GoogLeNet do?
- (d) What is the final loss function to train GoogLeNet?
- 2. In ResNet, residual blocks usually have same input and output shapes (height and width). How is the spacial dimensions reduced in ResNet?
- 3. Why does global average pooling based models have significantly less parameters than older CNN architectures like VGG, AlexNet?
- 4. What are the main types of object detection networks. Explain the major novelties.