TASK 4: OPEN ENDED TASK

<https://medium.com/@5180_90108/summary-of-imagenet-classification-with-deep-convolutional-neural-networks-8e81d4b70d7>

Summary:

The Summary of ImageNet classification with CNN, which made use of CNNs to classify images. They used 1.2M images for training. They used 5 CNNs and 3 Dense layers. Each layer uses RELU function. The output layer has 1000 nodes, and uses SoftMax to calculate the probabilities of image classification.

The CNNs changed the field of Computer Vision. They had less parameters than a Dense Network, and hence also allowed to build deeper layers. The CNNs also showed some interesting patterns. The first convolutional layer in the author’s model, did start to recognize edges or lines in the images.

The authors did use a two GPU parallel system, one for upper part of image, and other for lower part of image.

CNNs are Convolutional Neural Networks which are kind of neural networks in which a part of layer is connected with next node. This allows the CNN to work spatially, instead of treating images as sequence of pixels, they look at them and identify local pattern.

I learnt about how CNNs were used for computer vision for first time in a ImageNet competition. How they changed the landscape of computer vision and why exactly are they better alternative to other architectures.

