Paper**: Image Net Classification with Deep Convolutional Neural Network**

**Introduction**

**No of paragraphs: 5**

**Paragraph no. 1**

In current approaches, to improve the performance, they collect large dataset, current best error rate is < 0.3%. But there need to learn to recognize them, by using much larger training sets.

**Paragraph no. 2**

Large learning capacity is required to learn about thousands of objects of images.

**Paragraph no.** 3

CNN are expensive to apply in large scale to high resolution images.

**Paragraph no.** 4

They trained one of the largest CNN on the subset of image Net used in ILSVRC-2010 and ILSVRC-2012 competitions. To improve the performance and reduce training time, there some new features. Although they used 5 convolution and 3 fully connected layers.

**Paragraph no. 5**

Results of network can be improve by waiting for fast GPUs and bigger dataset to become available.