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Friday, April 5, 2019

**Paper Readings**

1. ImageNet Classification with Deep Convolutional Neural Networks

*Alex Krizhevsky, Ilya Sutskever, Geoffrey E. Hinton*

In this paper, a large, deep convolutional network was trained on a 1.2 million image dataset to classify images. It was a revolutionary paper to show the possibilities of deep convolutional networks. Using two graphics processors and a network of convolutional neural nets then 2 fully-connected layers with pooling, test rates of top-1 and top-5 achieved 37.5% and 17.0% respectfully, considerably better than the previous state-of-the-art networks. To reduce the overfitting in the fully-connected layers, a regularization method called “dropout” was employed. The techniques for fitting were described and overall it was a reader-friendly paper. It was not hard to understand for a student like myself. It was hard to wrap my mind around a system like that but once I did, the paper helped me understand it’s applications a lot better.