## Week 3

## Kexin Fan

Another version of XNOR-Net

This task would be finished after vocation on Linux system in the school

· Backpropagation of quantization neural network

According to paper: XNOR-Net: ImageNet Classification Using Binary Convolutional Neural Networks.

Forward propagation: Binarization->Input ->Hidden layer -> Output Backpropagation: partial derivatives -> update weights -> binarization

• Report learning curve of CIFAR-10 of XNOR-Net

The Tensorflow version of XNOR-Net:

Since the training speed is too slow, there are only ten times over one day.

