

## **Convolutional Neural Network on CIFAR10 dataset using PyTorch**

To implement a convolutional neural network using PyTorch, I have used 2 convolutional layers. To increase the number of data samples I used data augmentation methods such as RandomCrop and RandomHorizontalFlip. Also to stop model from overfitting and for the purpose of regularization I have used drop and batch normalization methods. I have used ADAM optimization method with learning rate 0.00001 here. All these functions were available in PyTorch and were taken directly from there only.

I ran 300 epochs and got a test accuracy of 81%. I believe dropout and data augmentation helps a lot in increasing the accuracy of the model.