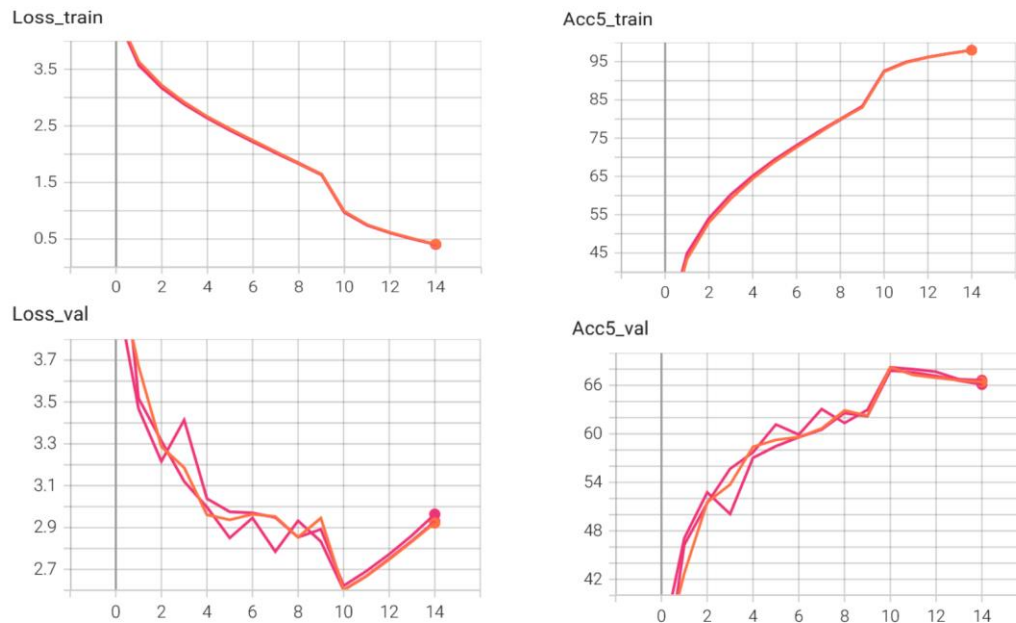


## 1. (TensorBoard) Graph of loss and top5 accuracy curve



The training is based on the parameters of `batch_size=256`, `learning rate=0.1` (decaying to `1/10` every 10 epochs), `momentum=0.9`, `weight_decay=1e-4`, `epoch_num=15` for 3 times with no pre-trained models used.

## 2. A try to promote the Acc5\_val

When loading the pre-trained model of Resnet18, setting the parameters on `resnet18`, `batch_size=256`, `learning rate=0.01`, `momentum=0.9`, `weight_decay=1e-4`, the validation accuracy of the top5 can reach and stabilize at about 77% which is showed below.

```
(base) PS C:\Users\86187> python .\Documents\GitHub\Weiczh-s-1st\hw2tinyimage\main.py --evaluate --resume C:/Users/86187/model_best.pth-256notr5.tar
=> creating model 'resnet18'
=> loading checkpoint 'C:/Users/86187/model_best.pth-256notr5.tar'
=> loaded checkpoint 'C:/Users/86187/model_best.pth-256notr5.tar' (epoch 5)
Test: [ 0/40]   Time 14.523 (14.523)   Loss 1.5435e+00 (1.5435e+00)   Acc@1 62.50 ( 62.50)   Acc@5 82.81 ( 82.81)
Test: [20/40]   Time 0.024 ( 0.723)   Loss 2.0116e+00 (2.0485e+00)   Acc@1 49.22 ( 51.93)   Acc@5 76.95 ( 77.06)
* Acc@1 51.500 Acc@5 76.740
(base) PS C:\Users\86187>
```