

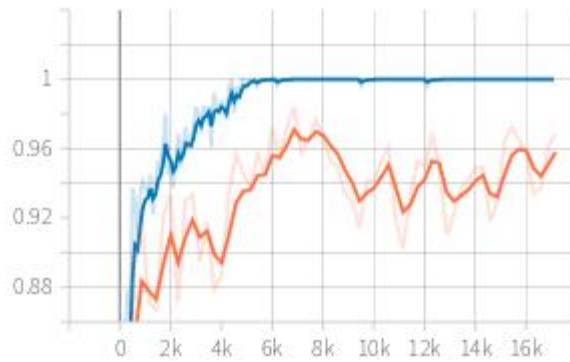
Q1: Finding alternatives of softmax

change the preds and loss:

1. softmax-loss

accuracy_avg: 0.9844

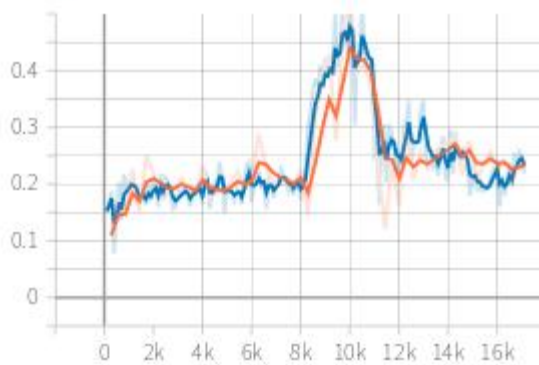
accuracy



2. square-max

accuracy_avg: 0.251

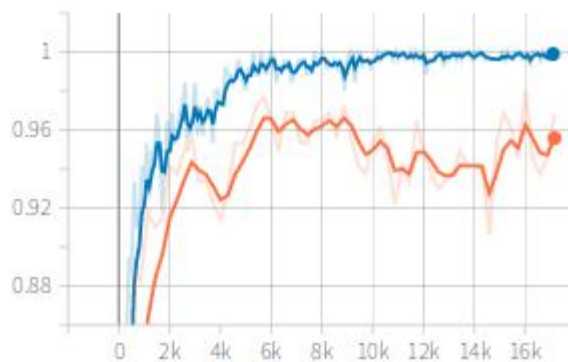
accuracy



3. plus-one-abs-max

accuracy_avg: 0.9766

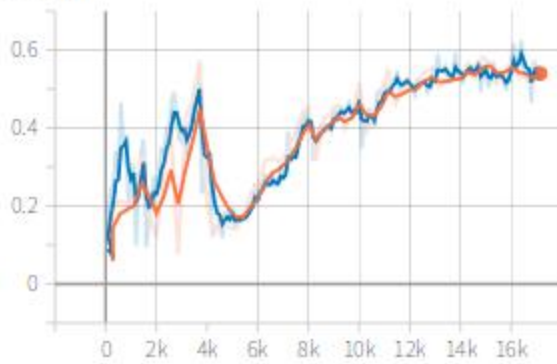
accuracy



4. non-negative-max

accuracy_avg: 0.550

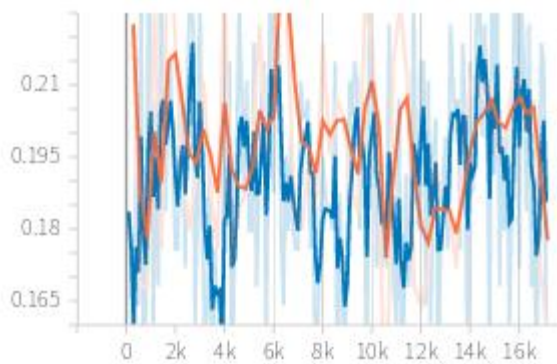
accuracy



5. abs-max

accuracy_avg: 0.206

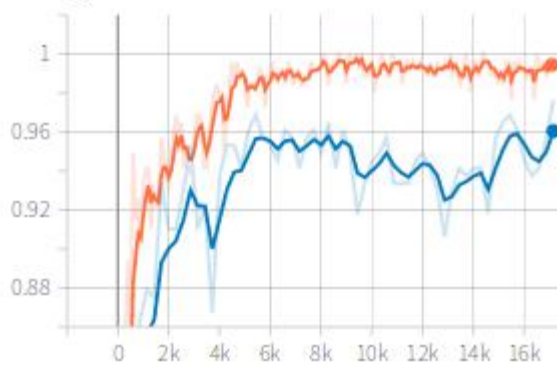
accuracy



Q2: Regression vs Classification

accuracy_avg: 0.9766

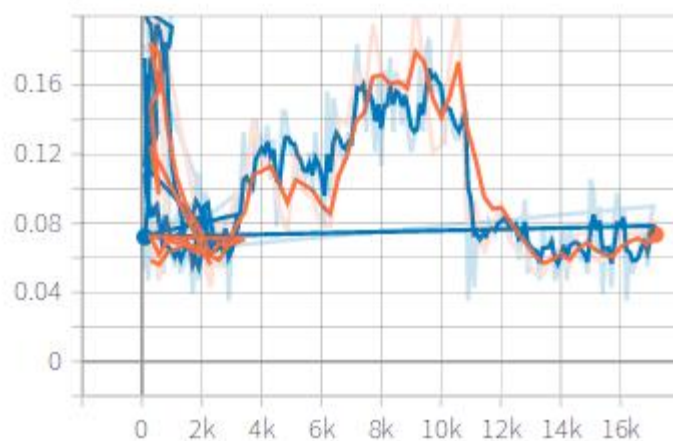
accuracy



Q3: Lp pooling (Should be named as q3.diff)

loss_avg: NAN accuracy_avg: None

accuracy



Q4: Regularization

1. Try Lp regularization with different p.

p=0:

accuracy_avg: 0.9603

p=1:

accuracy_avg: 0.9727

p=2:

accuracy_avg: 0.9844

p=3:

accuracy_avg: 0.9727

p=4:

accuracy_avg: 0.9648

p=8:

accuracy_avg: 0.9727

2. Set Lp regularization to a minus number.

accuracy_avg: 0.9648

accuracy

