MLFA LAB Assignment - 6

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Experiment 1

Residual turns out to be slightly better than Vanilla CNN.

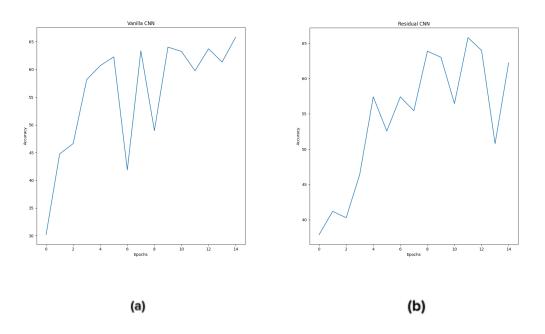


Figure 1: Vanilla CNN(a) v/s Residual CNN(b)

Experiment 2

Performance is **better in Normalized Data** as compared to Un-Normalized Data.

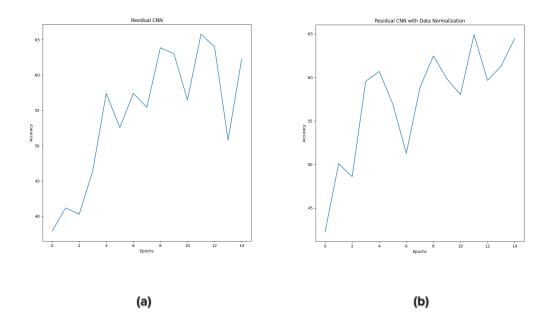


Figure 2: Un-Normalized(a) v/s Normalized(b)

Experiment 3

Comparison between optimizers:

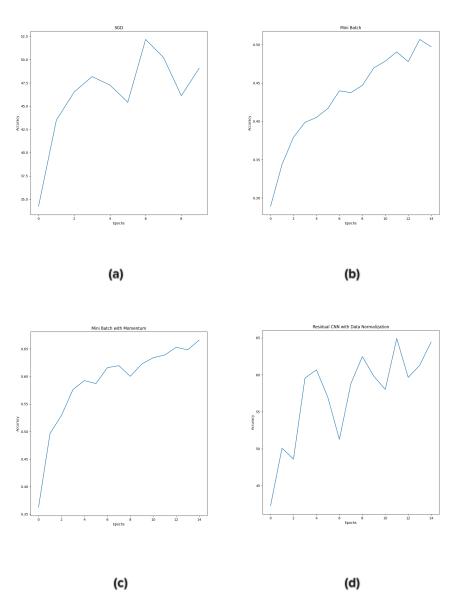


Figure 3: SGD(a), Mini Batch(b), Momentum(c), Adam(d)

As we can see, Minibatch with Momentum is the best.

Experiment 4

Comparison between modifications:

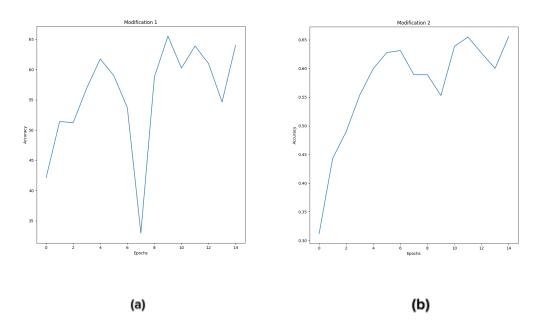


Figure 4: Modification 1(a) v/s Modification 2(b)

Modification 2 is better.