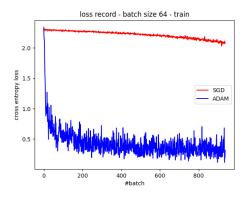
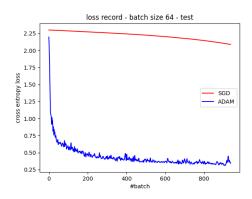
Foundations of Deep Networks

Caspar Schneider, Sinan Kuscu, Sinan Harms September 2022

PART II - PRACTICE

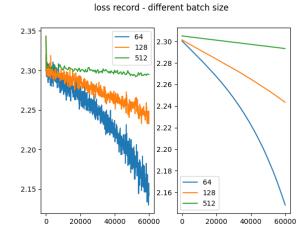
Task1





- SGD slower learning due to randomness of descent
- ADAM faster learning
- ightarrow use of both RMS prop and Momentum gradient descent optimization algorithms accelerates training

Task 2



- larger batch size degrades quality of the model
- $\bullet\,$ model is unable to generalize well on data
- smaller batch size improves performance with downside of higher computational cost