Mean normal precision@k for multiple neural network architectures (b) DNN with weighted loss (a) Dense neural network (DNN) 1.0 1.0 Top1 Top1 Top2 Top2 0.5 0.5 Precision@k Convolutional neural network (CNN) (d) CNN with weighted loss 1.0 Top1 Top1 Top2 Top2 0.5 2 (f) GRU with weighted loss (e) Recurrent neural network (GRU) 1.0 1.0 Top1 Top1 Top2 Top2 0.5 0.5 Training iterations (epochs) Training iterations (epochs)

Precision@k

Precision@k