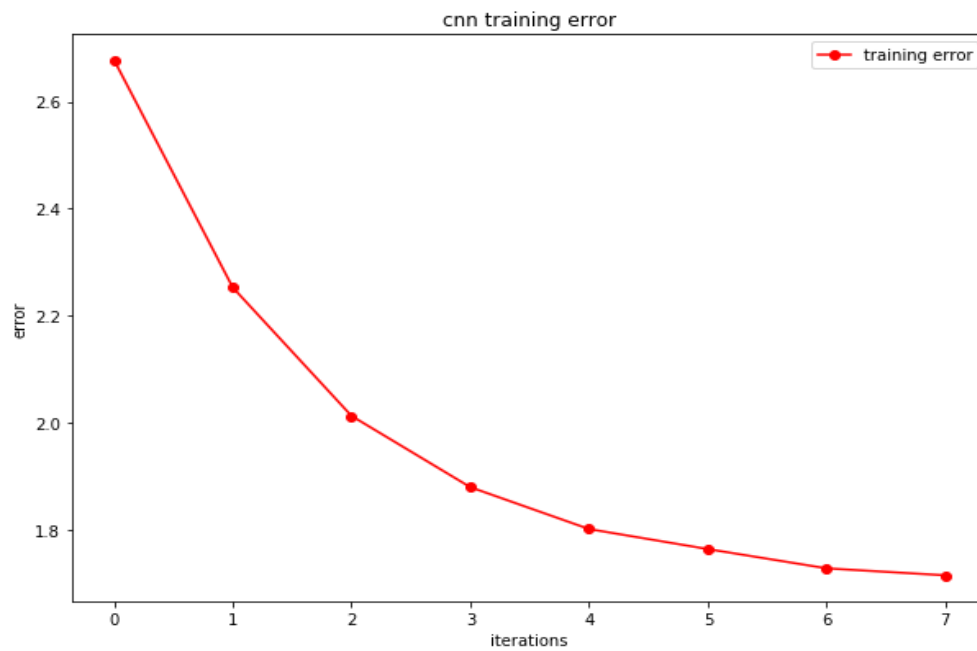


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1. Convolutional Neural Network. (Batch gradient descent Trained on 600 training samples and 400 test samples for 8 epoch)

Training Accuracy: 29.33

Test Accuracy: 25.75

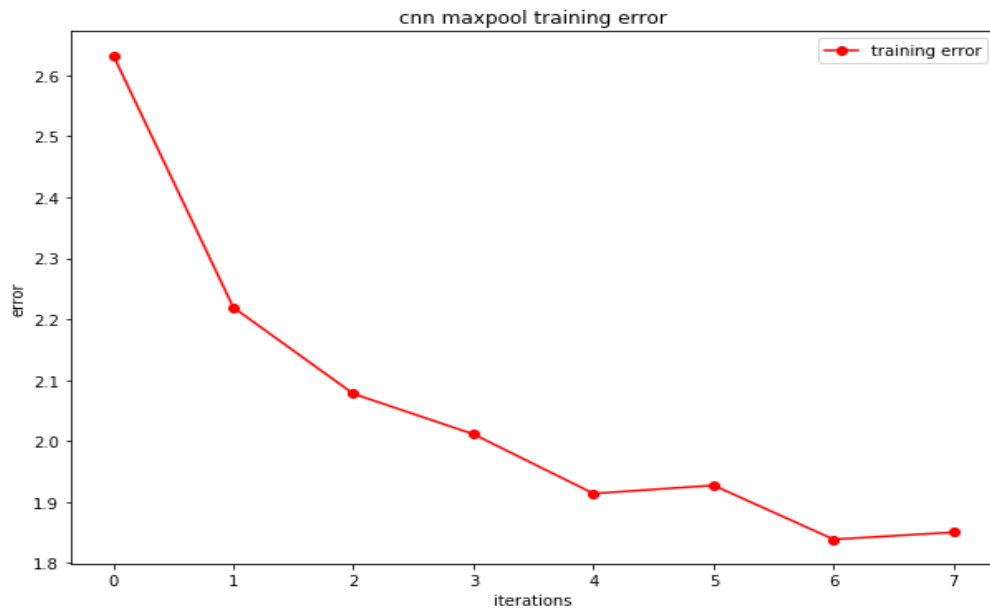


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2. Convolutional Neural Network with max-pooling (Batch gradient descent Trained on 600 training samples and 400 test samples for 8 epoch)

Training Accuracy: 25.33

Test Accuracy: 24

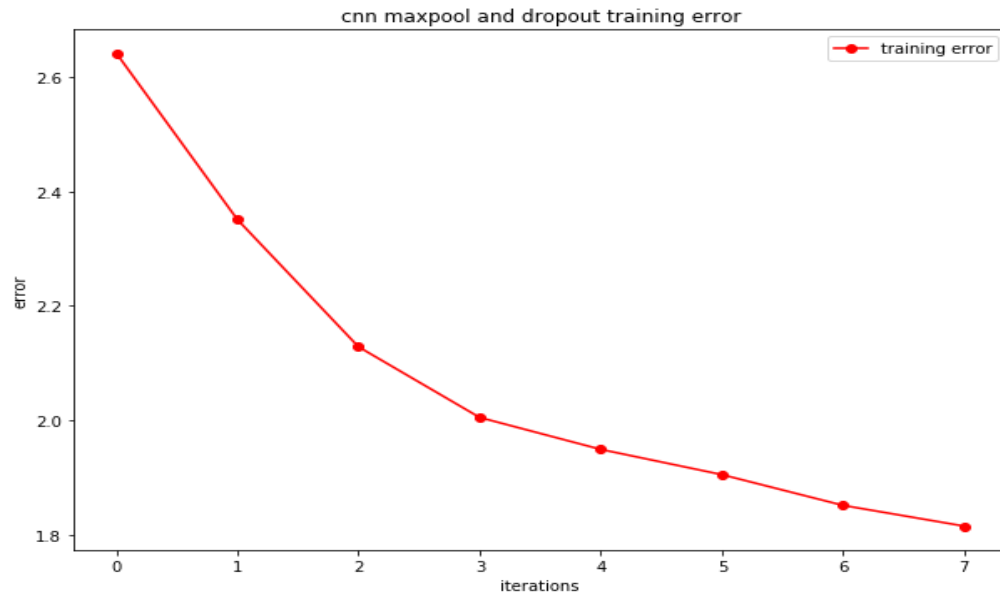


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3. Convolutional Neural Network with max-pooling and dropout. (Batch gradient descent Trained on 600 training samples and 400 test samples for 8 epoch)

Training Accuracy: 25

Test Accuracy: 24.75



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Logs

CNN

Loss after iteration 0: 2.677908

Loss after iteration 1: 2.252654

Loss after iteration 2: 2.012589

Loss after iteration 3: 1.879419

Loss after iteration 4: 1.801119

Loss after iteration 5: 1.763698

Loss after iteration 6: 1.727700

Loss after iteration 7: 1.714651

0.293333333333

0.2575

CNN with max-pooling

Loss after iteration 0: 2.632476

Loss after iteration 1: 2.219226

Loss after iteration 2: 2.077649

Loss after iteration 3: 2.011452

Loss after iteration 4: 1.914062

Loss after iteration 5: 1.927471

Loss after iteration 6: 1.838939

Loss after iteration 7: 1.850547

0.253333333333

0.24

CNN with max-pooling and dropout

Loss after iteration 0: 2.642122

Loss after iteration 1: 2.350894

Loss after iteration 2: 2.128179

Loss after iteration 3: 2.004672

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Loss after iteration 4: 1.948769

Loss after iteration 5: 1.904614

Loss after iteration 6: 1.850829

Loss after iteration 7: 1.814556

0.25

0.2475