Assignment 1 - Report

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The Implementation

The implementation is done in Matlab, following the suggested project structure. I achieved good computational performance by using vectorized operations. In particular

Results

Here are the results for the different configuration of paramers

Experiment 1

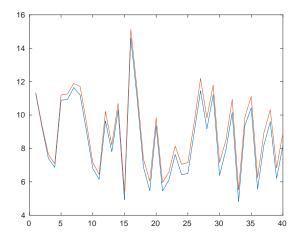


Figure 1: This is the caption \mathbf{r}

λ	eta	batches	epochs	Performance
0	0.1	100	40	$23.1\% \pm 4\%$

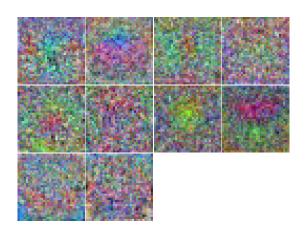


Figure 2: This is the caption

 $23.1~\mathrm{acc}$ with high variance (as low as 19 as high as 28)

Experiment 2

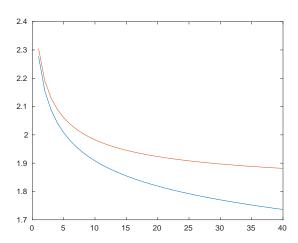


Figure 3: This is the caption

λ	eta	batches	epochs	Performance
0	0.01	100	40	$34.5\% \pm 2\%$

34,5 acc steady

Experiment 3

	2						
λ	eta	batches	epochs	Performance			
0.1	0.01	100	40	$34.3\% \pm 0.6\%$			

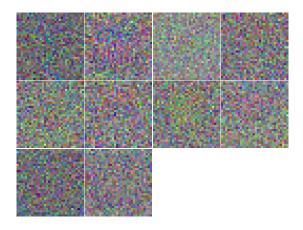


Figure 4: This is the caption

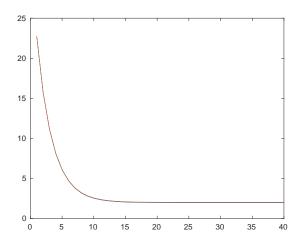


Figure 5: This is the caption \mathbf{r}

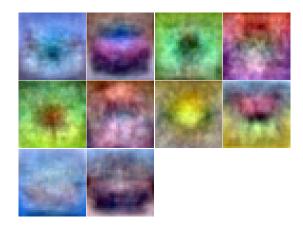


Figure 6: This is the caption

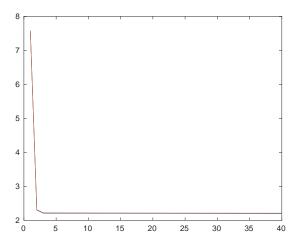


Figure 7: This is the caption $\frac{1}{2}$



Figure 8: This is the caption

 $21{,}5$ acc steady, std_dev less than 1%