HW3 Bonus DeepQ

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這次 DeepQ 我是參與 Pytorch 的競賽,針對 mobile net 與 resnet 分別對 learning rate, dropout,以及 batch size 進行了實驗,最後加上資料前處理 (旋轉)

mobilenet						
batch size	learning rate	momentum	seed	dropout	highest acc	last acc
16	0.01	0.1	50	0	88.8	88.4
16	0.01	0.1	50	0.1	89.4	87.4
16	0.01	0.1	50	0.2	89.6	87
32	0.01	0.1	50	0	87.6	77.4
32	0.01	0.1	50	0.1	88.4	87.4
32	0.01	0.1	50	0.2	87.9	87.2
16	0.001	0.1	50	0	88.6	88.4
16	0.001	0.1	50	0.1	88	87.2
16	0.001	0.1	50	0.2	88.4	87.2
32	0.001	0.1	50	0	88.6	87
32	0.001	0.1	50	0.1	88.4	87.8
32	0.001	0.1	50	0.2	88	87.2
16	0.1	0.1	50	0	87	75.8
16	0.1	0.1	50	0.1	86.8	83.8
16	0.1	0.1	50	0.2	84.8	80.4
32	0.1	0.1	50	0	88.8	77.2
32	0.1	0.1	50	0.1	87.8	62
32	0.1	0.1	50	0.2	87.6	43.4

resnet					
batch size	learning rate	momentum	seed	highest acc	last acc
16	0.1	0.1	50	88.2	88.2
16	0.01	0.1	50	92.4	91.2
16	0.001	0.1	50	90.8	89.6
32	0.1	0.1	50	88.8	86.4
32	0.01	0.1	50	90.6	90
32	0.001	0.1	50	90.6	89.8

最後 mobilenet 選擇 batch size = 16 , lr=0.01 , momentum = 0.1 , seed = 50 , dropout = 0.2 resnet 選擇 batch size = 16 , lr=0.01 , momentum = 0.1 , seed = 50

兩個模型在訓練時都加上了 data preprocessing,及旋轉圖片,Accuracy上升了大約 2%