Q5

Due Apr 26 at 6am | **Points** 100 | **Questions** 8 | **Available** until Apr 26 at 6am | **Time Limit** 30 Minutes

Instructions

Instructions:

1. You have 30 minutes to attempt the quiz
2. Once you start the quiz, you cannot go back and re-attempt it
3. You will not find answers online, so please make sure you are ready for the quiz
4. For Multiple Answer Questions, ALL the answers must be correct to score any point

Sometimes you might see multiple empty options. Please do not consider those empty options, that's some rendering issue, the options you see are the only options available for that question.

This quiz was locked Apr 26 at 6am.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	7 minutes	62 out of 100

Score for this quiz: **62** out of 100
Submitted Apr 25 at 12:31pm
This attempt took 7 minutes.

Question 1 — 0 / 10 pts

Select all which are true:

Dropout:

- Correct Answer: ☐ Reduces the gap between TestAcc and TrainAcc
- You Answered: ☑ Increases Test Accuracy
- ☐ Increases Training Accuracy
- You Answered: ☑ Increases Test Acc while reducing Train Acc.

Question 2 — 10 / 10 pts

Batch Normalization should be added before the predication layer.

- ○ True
- Correct!: ◉ False

Question 3 — 10 / 10 pts

Batch Normalization can be added

- Correct!: ☑ After Convolution
- ☐ Before Convolution

Question 4 — 10 / 10 pts

Select which all are true

- Correct!: ☑ Depending on GPU Bigger Batch size might speed up Epochs
- ☐ We do not need to maintain equal class representation in a batch
- Correct!: ☑ To be on a safer side, it is always a good idea to shuffle the dataset.
- ☐ Adding LR Scheduler always increase accuracy

Question 5 — 12 / 30 pts

Your model is overfitting. What all can be considerd?

- Correct!: ☑ Reducing number of kernels
- Correct!: ☑ Adding DropOut
- ☐ Going ahead with top_5 accuracies
- Correct!: ☑ Adding/Changing Image Augmentation strategies
- ☐ Increasing number of kernels
- ☐ Increasing number of layers
- You Answered: ☑ Changing the Optimizer
- You Answered: ☑ Changing Learning Rate
- Correct Answer: ☐ Adding Batch Normalization
- Correct!: ☑ Adding more training data (but not touching test images)

Question 6 — 10 / 10 pts

The images in our dataset are of size 100x100. Currently, you are at a layer where the resolution is 7x7x512. Which the best option from below (as we covered in the 10 codes)?

- ☐ Larger Kernel Size to convert 7x7 to 1x1
- ☐ MaxPooling
- ☐ Dense Layer
- Correct!: ☑ Using GAP, followed by FC or 1x1 to match number of classes

Question 7 — 0 / 10 pts

The activations for class A, B, and C before softmax were 10, 8 and 3.

The difference in softmax values for class A and class B would be

- Correct Answer: ○ 76%
- You Answered: ◉ 88%
- ○ 12%
- ○ 0.0008%

Question 8 — 10 / 10 pts

The activations for class A, B, and C before softmax were 10, 8 and 3.

There is only 1 image we are processing and the class happens to be B. If we are using Negative Llkelihood Loss, the loss value right now is:

- Correct!: ◉ 2.127731
- ○ -2.127731
- ○ 0.127731
- ○ -0.127731

Quiz Score: **62** out of 100