Question Answers:

**Question:**

What can we use the ImageDataGenerator for? What can it help us fight? (Give a brief, 1-sentence description)

**Answer:**

It augments images for the us in a supported technique of our choosing, which can prevent human error.

**Question:**

What is a better idea: To use one larger kernel (8,8) or multiple stacked smaller ones, 4x(2,2)? Why? Show the number of weights for each option.

**Answer:**

In general, it is always better to go with the smaller kernel.

8\*8 = 64

2\*2 = 4 \* 2 = 8 \* 2 = 16 \* 2 = 64

While the weights may or may not be the same, there are other benefits to using smaller kernels rather than larger ones. One is that smaller kernals have less computation time and smaller memory usage. The main reason is that using multiple kernels gives you more details, rather than just using one. In most cases, using a single kernel rather than multiple outputs an underfit model.

\*\*\* Professors video 5 would not work, so I did my own research. I apologize if it is wrong.