***Generator***

Layer (type) Output Shape Param #

=================================================================

input\_1 (InputLayer) [(None, 100)] 0

dense (Dense) (None, 8192) 827392

reshape (Reshape) (None, 4, 4, 512) 0

sequential (Sequential) (None, 8, 8, 256) 3278080

sequential\_1 (Sequential) (None, 16, 16, 128) 819840

sequential\_2 (Sequential) (None, 32, 32, 64) 205120

conv2d\_transpose (Conv2DTra (None, 64, 64, 3) 4803

nspose)

=================================================================

Total params: 5,135,235

Trainable params: 5,134,339

Non-trainable params: 896

***Discriminator***

Model: "model\_1"

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Layer (type) Output Shape Param #

=================================================================

input\_2 (InputLayer) [(None, 64, 64, 3)] 0

dropout (Dropout) (None, 64, 64, 3) 0

sequential\_3 (Sequential) (None, 32, 32, 64) 4864

sequential\_4 (Sequential) (None, 16, 16, 128) 205440

sequential\_5 (Sequential) (None, 8, 8, 256) 820480

sequential\_6 (Sequential) (None, 4, 4, 512) 3279360

conv2d\_1 (Conv2D) (None, 1, 1, 1) 8193

=================================================================

Total params: 4,318,337

Trainable params: 4,316,545

Non-trainable params: 1,792

**Number of image in dataset:** 3670 files belonging to 5 classes.

In this case the GAN was not converging because the discriminator was too good. This is a common problem: if discriminator can distinguish the real examples from the fake ones it will never give any suggestion to the generator how to improve the data generation

**tensorboard --logdir=logs:D:\flower\tf\_flower\_gan\logs**