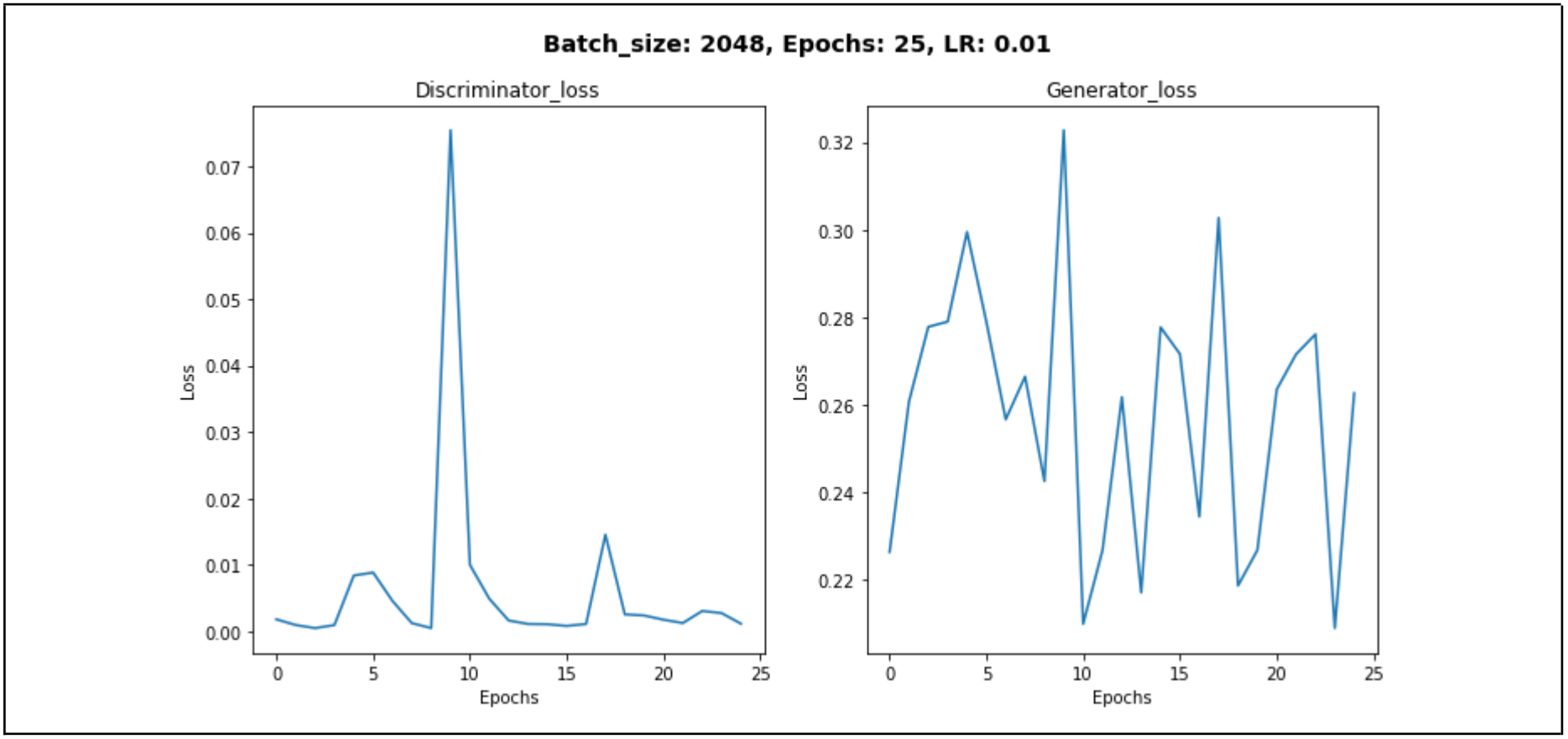
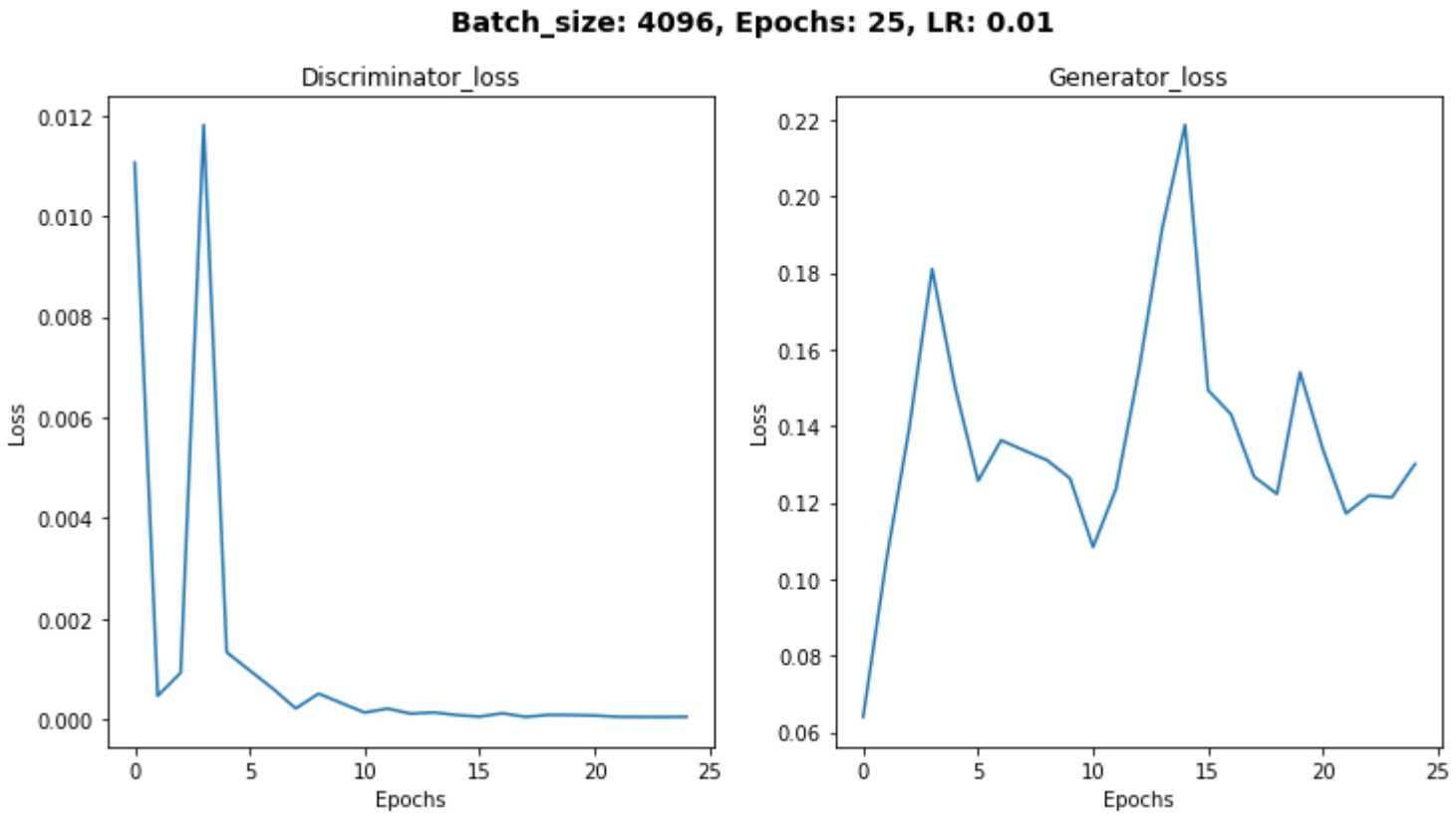
Task 1

1. Loss Curves

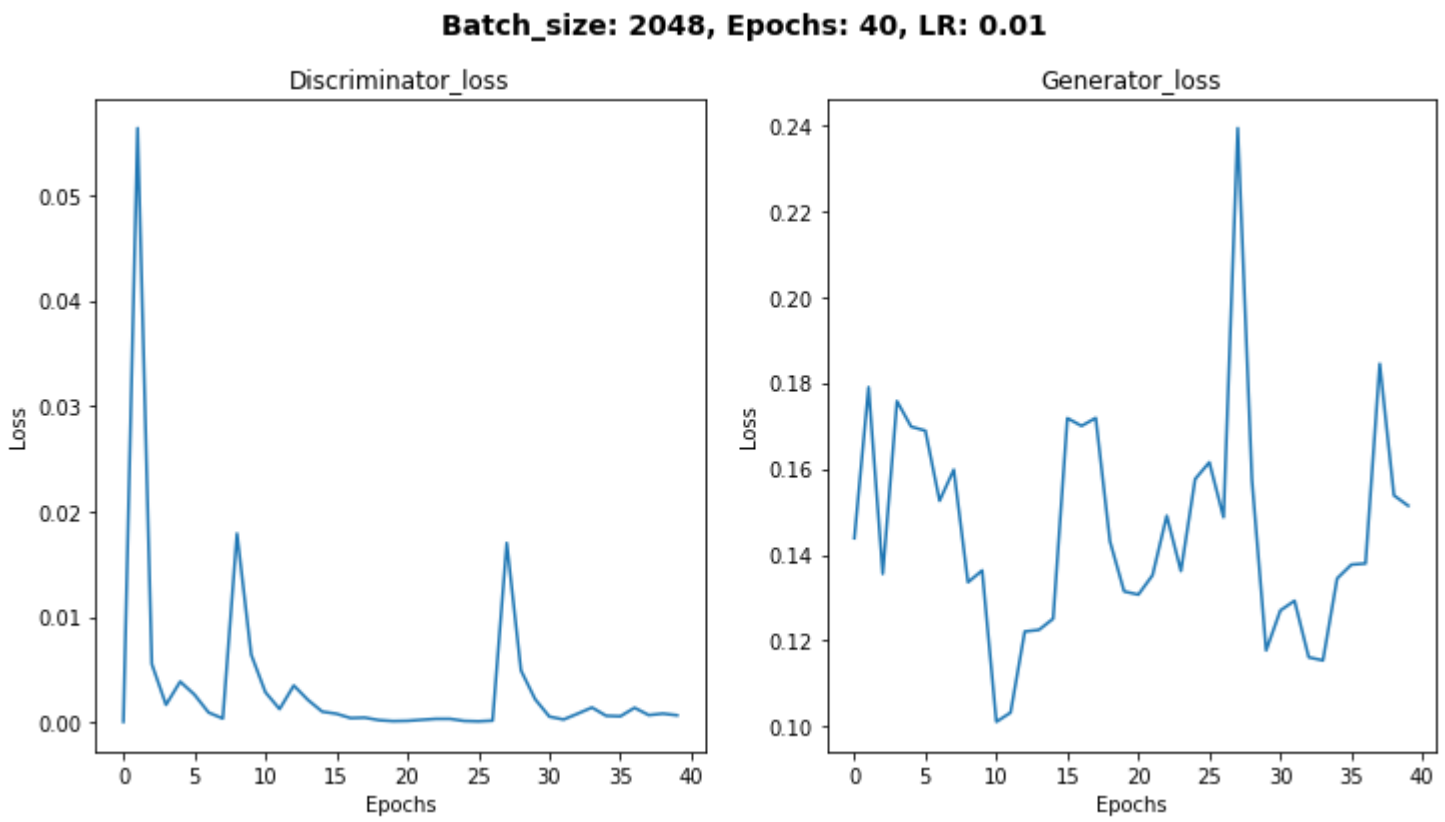


2. Batch Size



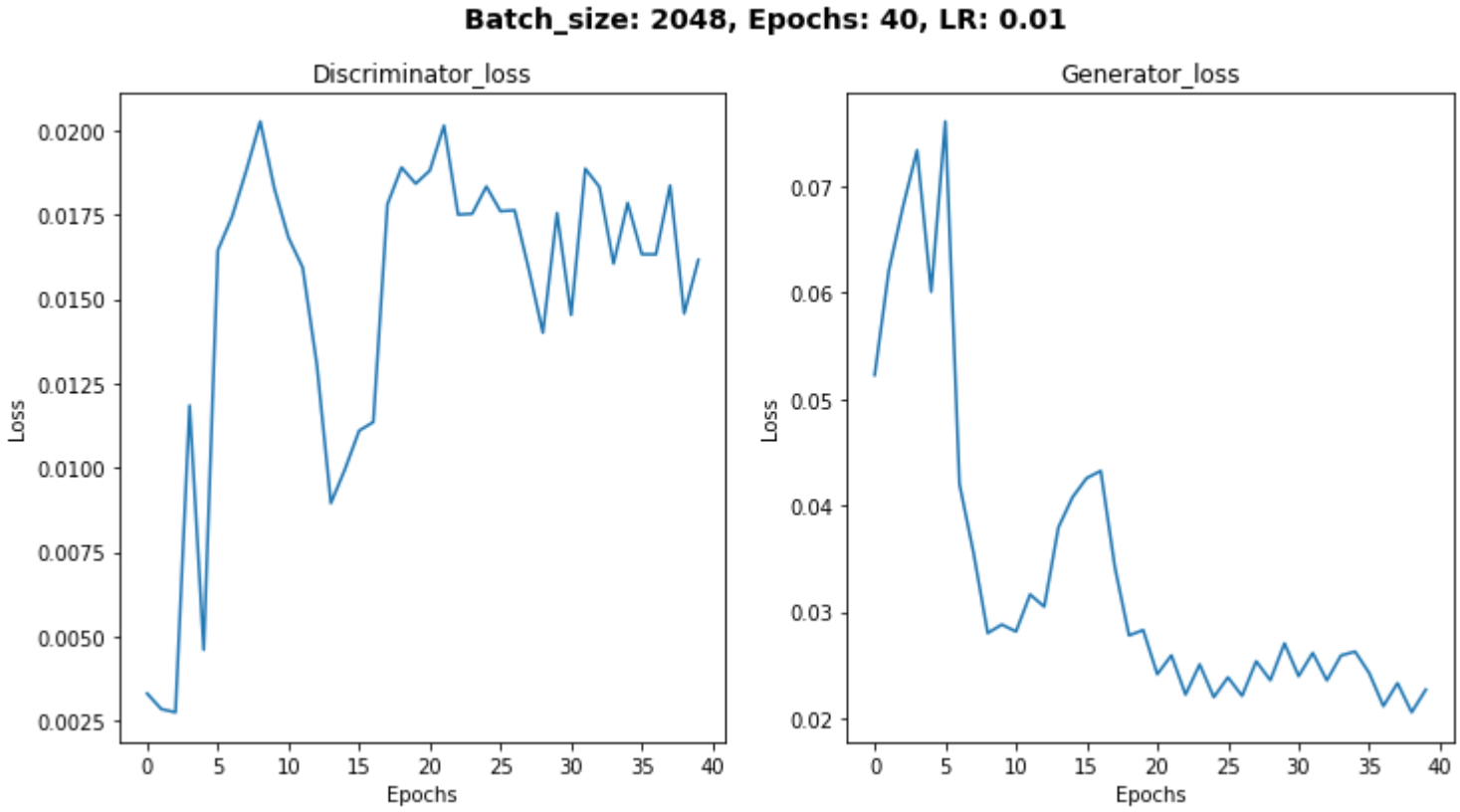
- When the batch size was doubled the overall generator loss decreased and the loss for the discriminator remains the same.

3. Epochs



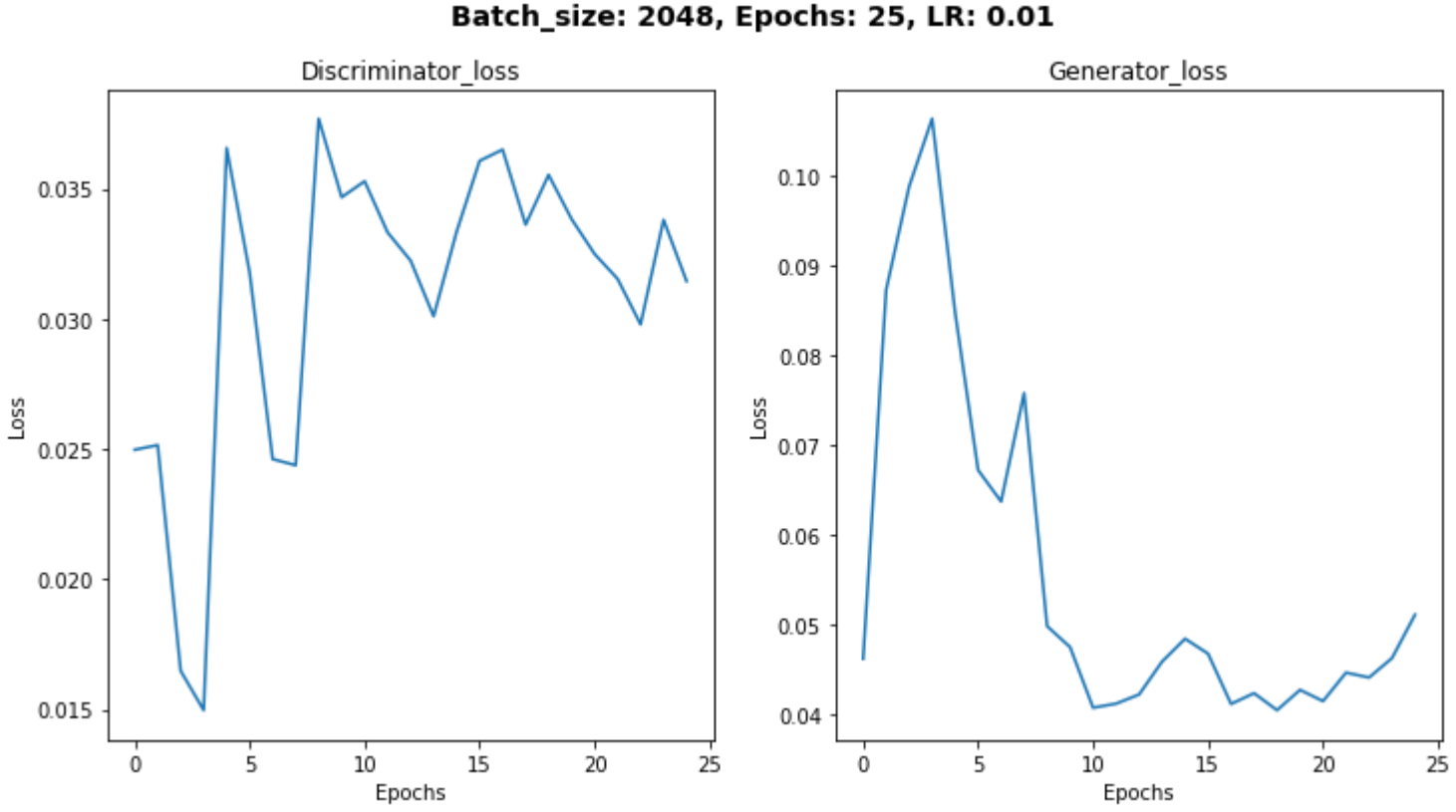
- There is a very small impact on loss by increasing the epochs.

4. Optimizers

Optimizer changed from Adam to SGD

• With SGD the loss for the Generator decreased to 0.02 and the loss of discriminator was also close to 0.02 which means the generator produces better images when trained with SGD.

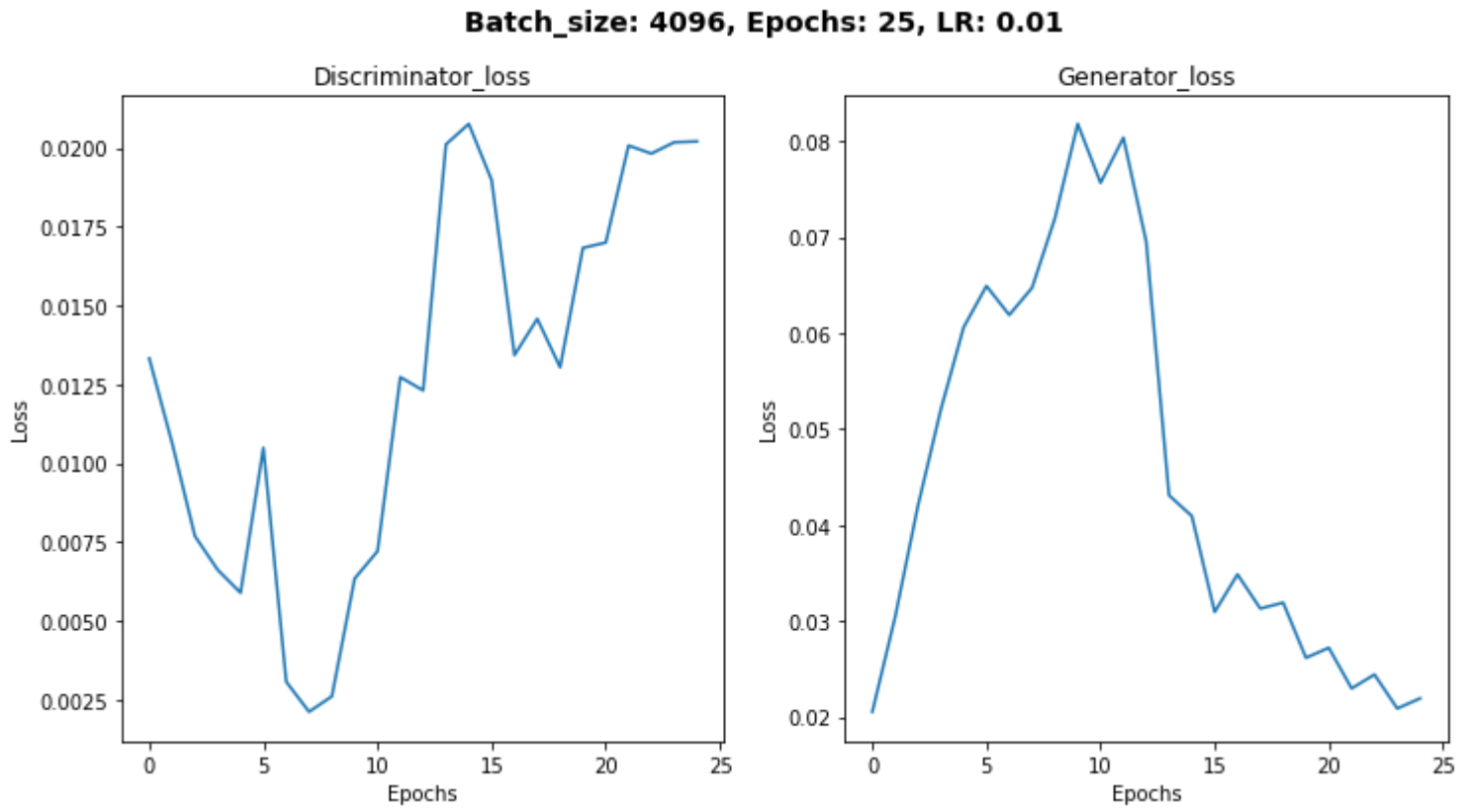
Task 2

1. **Loss Curves**



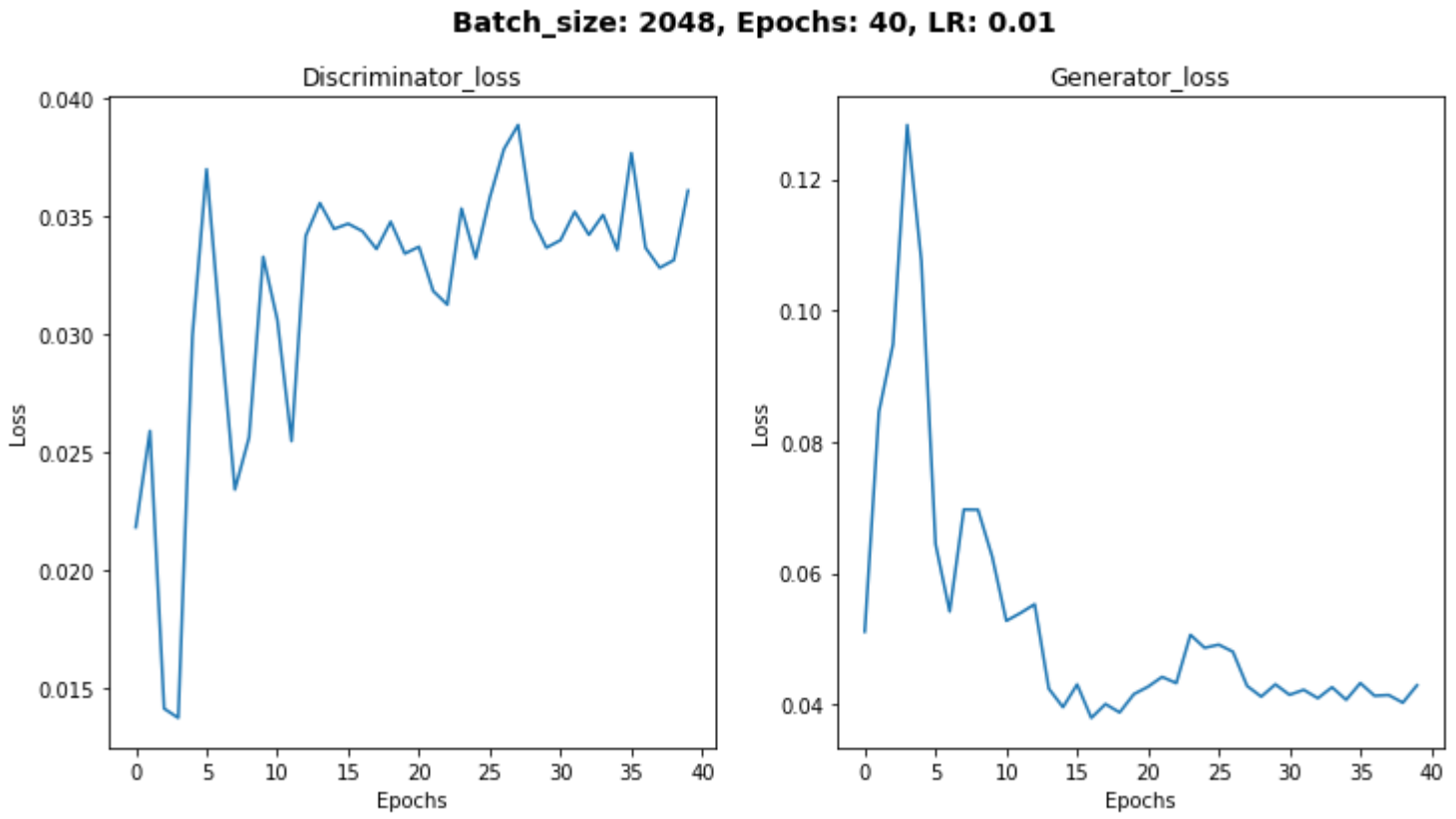
- In this task the generator loss is lesser as compared to discriminator.

2. Batch Size



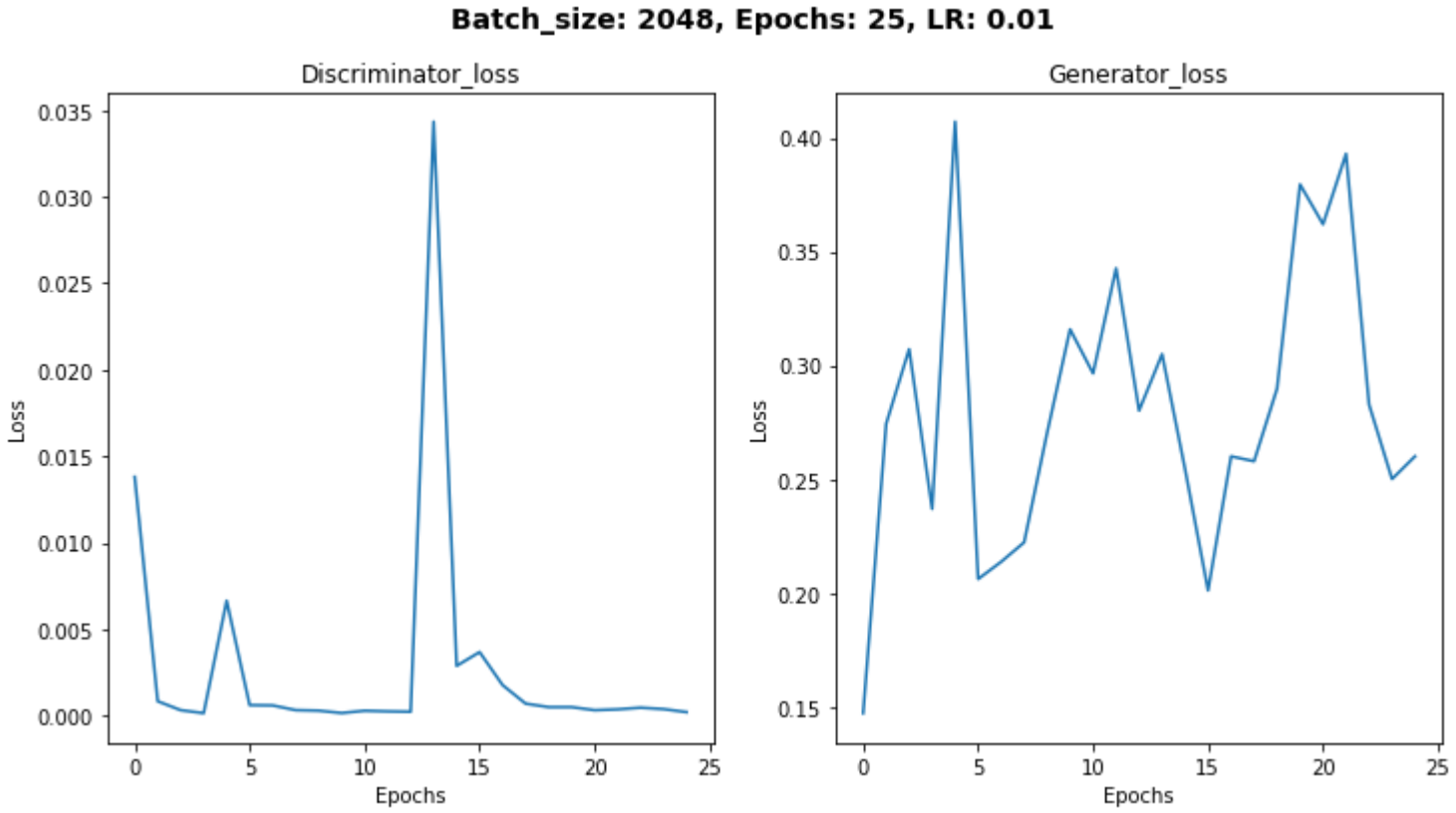
- The overall loss for the generator decreased to 0.02 from 0.4 with half batch size.

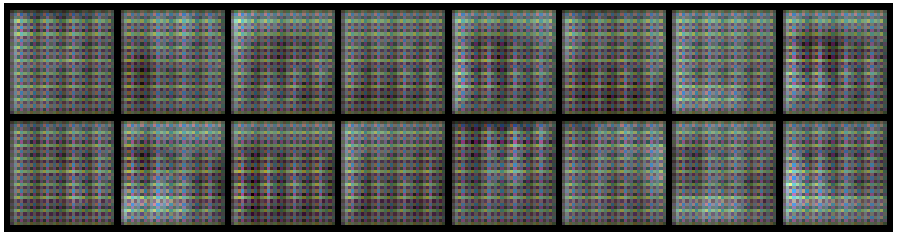
3. Epochs



- No great impact.

4. Optimizers

The optimizer was changed from SGD to Adam

• Similar to previous task the loss increased with Adam optimizer.

Generator Results Comparison

task1	task2