

✔ Congratulations! You passed!

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higher

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1. Consider the following statement:

1 / 1 point

The term Deepfake is typically associated with synthetic data (generated by a Neural Network) which is similar to real-world, observed data that the Neural Network is trained on.

Is the statement True or False?

- ☒ True
☐ False

✔ Correct
Correct!

2. What will be the output of the following piece of code:

0 / 1 point

```
1 x = np.zeros((100, 100))
2 y = np.ones((50, 100))
3 print(np.concatenate([x, y], axis=0).shape)
```

- ☐ (150, 100)
☒ It will raise an error.
☐ (150, 200)

✘ Incorrect
Incorrect. Please refer to Task 2 of the hands on project.

3. In the Discriminator Network, why did we set the "strides" argument to 2 in the Convolution Layers (Conv2D)?

1 / 1 point

- ☒ To reduce the size of first two dimensions (ignoring batch size) of the input tensor.
☐ We did not! We used Average Pooling instead.
☐ To increase the size of the first two dimensions (ignoring batch size) of the input tensor.

✔ Correct
Correct!

4. The Generator Network's output shape and the Discriminator Network's input shape must be the same. True or False?

1 / 1 point

- ☒ True
☐ False

✔ Correct
Correct! The Generator output is connected to the Discriminator input in the GAN.

5. When we train the entire GAN, the Generator part of the network must be set to non-trainable. True or False?

1 / 1 point

- ☒ False
☐ True

✔ Correct
Correct! It's the Discriminator which is non trainable when the entire network is trained. Discriminator is trained separately in each step.