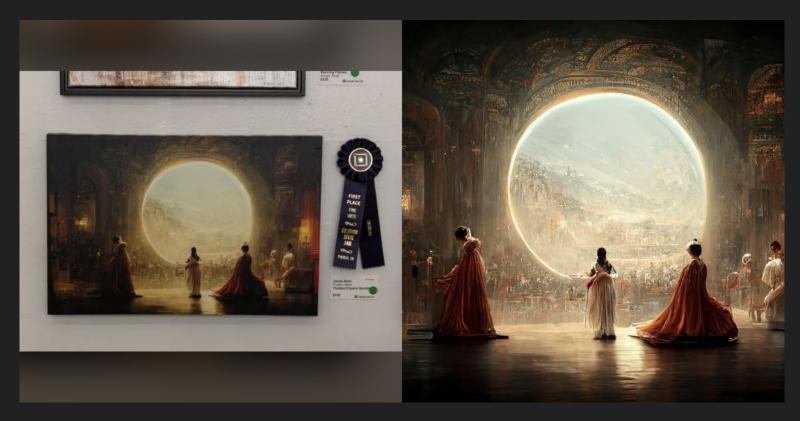
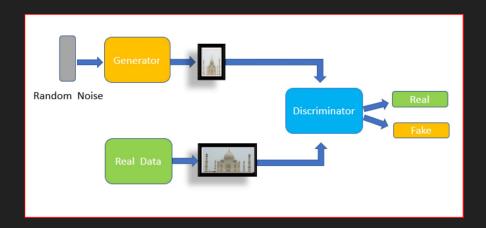
# Al-Generated Image Classifier

Thomas Cazort

# Introduction



#### Related Work



Goodfellow et al., Generative Adversarial Networks, 2014



Maras, M.-H., & Alexandrou, A., Determining authenticity of video evidence in the age of artificial intelligence and in the wake of Deepfake videos, 2018

### Datasets

# Midjourney





# Midjourney



# Midjourney



# Midjourney









### Convolutional Neural Network

```
model = Sequential()
                                                                 Layer (type)
                                                                                        Output Shape
                                                                                                            Param #
                                                                 conv2d_2 (Conv2D)
                                                                                        (None, 254, 254, 32)
                                                                                                            896
model.add(Conv2D(filters=32,
                                                                 conv2d 3 (Conv2D)
                                                                                        (None, 252, 252, 64)
                                                                                                            18496
                      kernel size=(3, 3),
                      activation='relu',
                                                                 max pooling2d 1 (MaxPooling (None, 126, 126, 64)
                                                                                                            0
                                                                 2D)
                      input shape=input shape))
model.add(Conv2D(64, (3, 3), activation='relu'))
                                                                 dropout 2 (Dropout)
                                                                                        (None, 126, 126, 64)
                                                                                                            0
model.add(MaxPooling2D(pool size=(2, 2)))
                                                                 flatten 1 (Flatten)
                                                                                        (None, 1016064)
                                                                                                            0
model.add(Dropout(0.25))
                                                                 dense 2 (Dense)
                                                                                        (None, 128)
                                                                                                            130056320
model.add(Flatten())
                                                                 dropout_3 (Dropout)
                                                                                        (None, 128)
model.add(Dense(128, activation='relu'))
model.add(Dropout(0.25))
                                                                 dense_3 (Dense)
                                                                                        (None, 1)
                                                                                                            129
model.add(Dense(1, activation='sigmoid'))
```

model.compile(loss=tf.keras.losses.binary crossentropy,

metrics=['accuracy'])

optimizer=keras.optimizers.Adam(),

#### Results

### My Experience

- Data Collection
- Data Processing
- CNN Sequence
- Training Times

