Monet Painting - GANs by Marshall Folkman

→ Github Link

https://github.com/Vamboozer/Al/tree/58b57216adf81f9a74ed8c65f3c456db37c0727a/DeepLearning/Monets

Problem Description

In the realm of art, renowned artists like Claude Monet have signature styles that distinguish their masterpieces. The digital revolution, specifically the advent of deep learning, has introduced the capability to mimic such unique artistic flair using Generative Adversarial Networks (GANs). This competition merges the essence of art with the precision of data science, challenging participants to not only replicate the Monet style but to produce images so authentic that they could be mistaken for genuine Monet works.

Data Description

The dataset consists of four directories, offering both Monet's paintings and regular photos in two formats: JPEG and TFRecord. Specifically, there are 300 Monet paintings and 7028 photos, all sized at 256x256 pixels. Participants are tasked with training their model on the Monet images and then applying or generating the Monet style to the photos. The end goal is to craft and submit 7,000 to 10,000 Monet-inspired images, encapsulating the challenge's blend of artistic creativity and technological expertise. I will use the recommended photos as the getting started way to do this assignment.

▼ EDA

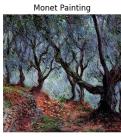
```
# Requires: pip install nbconvert ipykernel pandas matplotlib seaborn tensorflow scikit-learn
import pandas as pd
import os
import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np
import sys
print(sys.version)
import tensorflow as tf
print(tf.__version__)
from PIL import Image
import random
from hashlib import md5
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.models import Model, Sequential
from tensorflow.keras.layers import Input, Dense, Flatten, Reshape, LeakyReLU, Dropout, BatchNormalization, UpSampling2D, Conv2D, Activation
from keras.optimizers import Adam
from tensorflow.keras import backend as K
from tensorflow.keras.preprocessing.image import img_to_array, load_img
from keras.applications.inception_v3 import InceptionV3, preprocess_input
from scipy.linalg import sqrtm
from skimage.transform import resize
from sklearn.metrics import mean_squared_error
from tensorflow import reduce mean
from tqdm.notebook import tqdm
from tensorflow.keras.losses import binary_crossentropy
!pip install tensorflow-addons
import tensorflow_addons as tfa
from sklearn.model_selection import train_test_split
from functools import partial
from tensorflow.keras.callbacks import TensorBoard
from tensorflow.summary import create_file_writer
import datetime
    3.10.12 (main, Jun 11 2023, 05:26:28) [GCC 11.4.0]
     2.12.0
    Collecting tensorflow-addons
       Downloading tensorflow_addons-0.21.0-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (612 kB)
                                                 - 612.1/612.1 kB 6.0 MB/s eta 0:00:00
    Requirement already satisfied: packaging in /usr/local/lib/python3.10/dist-packages (from tensorflow-addons) (23.1)
```

```
Collecting typeguard<3.0.0,>=2.7 (from tensorflow-addons)
       Downloading typeguard-2.13.3-py3-none-any.whl (17 kB)
     Installing collected packages: typeguard, tensorflow-addons
     Successfully installed tensorflow-addons-0.21.0 typeguard-2.13.3
     /usr/local/lib/python3.10/dist-packages/tensorflow_addons/utils/tfa_eol_msg.py:23: UserWarning:
     TensorFlow Addons (TFA) has ended development and introduction of new features.
     TFA has entered a minimal maintenance and release mode until a planned end of life in May 2024.
     Please modify downstream libraries to take dependencies from other repositories in our TensorFlow community (e.g. Keras, Keras-CV, and k
     For more information see: <a href="https://github.com/tensorflow/addons/issues/2807">https://github.com/tensorflow/addons/issues/2807</a>
       warnings.warn(
## ONLY RUN THIS CODE IF RUN FROM GOOGLE COLABORATORY
# Mount Google Drive
from google.colab import drive
drive.mount('/content/drive')
# Paths to the zipped datasets on Google Drive
import zipfile
monet_zip_path = "/content/drive/My Drive/Colab Notebooks/monet_jpg.zip"
photo_zip_path = "/content/drive/My Drive/Colab Notebooks/photo_jpg.zip"
def unzip_dataset(zip_path, dest_dir):
   Unzips a dataset from a specified path to a destination directory.
   with zipfile.ZipFile(zip_path, 'r') as zip_ref:
        zip_ref.extractall(dest_dir)
# Destination directories for the datasets
monet_unzip_dir = "/content/drive/My Drive/Colab Notebooks/monet_jpg"
photo_unzip_dir = "/content/drive/My Drive/Colab Notebooks/photo_jpg"
# Load Monet paintings
monet_images = [Image.open(os.path.join(monet_unzip_dir, filename)) for filename in os.listdir(monet_unzip_dir) if filename.endswith('.jpg')]
# Load photos
photo_images = [Image.open(os.path.join(photo_unzip_dir, filename)) for filename in os.listdir(photo_unzip_dir) if filename.endswith('.jpg')]
print(len(monet_images))
print(len(photo_images))
     Mounted at /content/drive
     300
     7038
## ONLY RUN THIS CODE IF RUN FROM LOCAL MACHINE
# Define paths
#monet_dir = "D:\OneDrive\_CU-MSEE\AI\DTSA5511_DeepLearning\Week5\gan-getting-started\monet_jpg"
#photo_dir = "D:\OneDrive\_CU-MSEE\AI\DTSA5511_DeepLearning\Week5\gan-getting-started\photo_jpg"
# Load Monet paintings
#monet_images = [Image.open(os.path.join(monet_dir, filename)) for filename in os.listdir(monet_dir) if filename.endswith('.jpg')]
# Load photos
#photo_images = [Image.open(os.path.join(photo_dir, filename)) for filename in os.listdir(photo_dir) if filename.endswith('.jpg')]
# Display some samples
plt.figure(figsize=(12, 6))
# Display a few Monet paintings
for i in range(3):
    plt.subplot(2, 3, i+1)
    plt.imshow(monet_images[i])
   plt.title("Monet Painting")
   plt.axis('off')
# Display a few photos
for i in range(3):
   plt.subplot(2, 3, i+4)
   plt.imshow(photo_images[i])
    plt.title("Photo")
    plt.axis('off')
```

plt.tight_layout()
plt.show()







Photo





```
# Lets see some more at random
def display_images(images, title, num=5):
   plt.figure(figsize=(15, 5))
   for i in range(num):
      plt.subplot(1, num, i+1)
      plt.imshow(random.choice(images))
      plt.title(title)
      plt.axis('off')
plt.show()
```

display_images(monet_images, "Monet Painting")
display_images(photo_images, "Photo")











Monet Painting

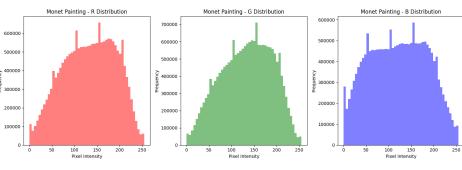








```
# Compute the mean and standard deviation of pixel values.
def image_stats(images):
   all_pixels = np.array([np.array(img) for img in images])
   mean = np.mean(all_pixels)
   std = np.std(all_pixels)
   return mean, std
monet_mean, monet_std = image_stats(monet_images)
photo_mean, photo_std = image_stats(photo_images)
print(f"Monet Images - Mean: {monet_mean}, Standard Deviation: {monet_std}")
print(f"Photo Images - Mean: {photo_mean}, Standard Deviation: {photo_std}")
     Monet Images - Mean: 129.42118776109484, Standard Deviation: 59.34038983599576
    Photo Images - Mean: 101.69712669370391, Standard Deviation: 67.7793679033837
# Plot the distribution of RGB colors to understand the color intensity distribution in the datasets.
def plot_color_distribution(images, title):
   colors = ('r', 'g', 'b')
   plt.figure(figsize=(15, 5))
   for idx, color in enumerate(colors):
       plt.subplot(1, 3, idx+1)
       all_pixels = np.array([np.array(img)[:,:,idx].ravel() for img in images]).ravel()
       plt.hist(all_pixels, bins=50, color=color, alpha=0.5)
        # Axis labels and title
       plt.xlabel('Pixel Intensity')
       plt.ylabel('Frequency')
       plt.title(f"{title} - {color.upper()} Distribution")
   plt.tight_layout()
   plt.show()
plot_color_distribution(monet_images, "Monet Painting")
plot_color_distribution(photo_images, "Photo")
```



```
# Use hashing to identify and remove duplicate images.
def get_duplicates(images):
   hash_dict = {}
   duplicates = []
    for img in images:
       h = md5(np.array(img).tobytes()).hexdigest()
       if h in hash_dict:
            duplicates.append(img)
        else:
           hash_dict[h] = img
    return duplicates
monet_duplicates = get_duplicates(monet_images)
photo_duplicates = get_duplicates(photo_images)
print(f"Number of duplicate Monet paintings: {len(monet_duplicates)}")
print(f"Number of duplicate photos: {len(photo_duplicates)}")
     Number of duplicate Monet paintings: 0
    Number of duplicate photos: 10
# Confirm all images are 256x256 pixels
def check_image_dimensions(images):
   unique_dims = {img.size for img in images}
   return unique_dims
print(f"Unique dimensions in Monet paintings: {check_image_dimensions(monet_images)}")
print(f"Unique dimensions in photos: {check_image_dimensions(photo_images)}")
    Unique dimensions in Monet paintings: {(256, 256)}
    Unique dimensions in photos: {(256, 256)}
```

Cleaning and Preprocessing

Cleaning (Remove Duplicates)

```
def remove_duplicates(images):
    hash_dict = {}
    unique_images = []

for img in images:
    h = md5(np.array(img).tobytes()).hexdigest()
    if h not in hash_dict:
        hash_dict[h] = img
        unique_images.append(img)

    return unique_images

# Assuming photo_images contains all the photos
photo_images_cleaned = remove_duplicates(photo_images)

print(f"Original number of photos: {len(photo_images)}")
    print(f"Number of photos after removing duplicates: {len(photo_images_cleaned)}")
    Original number of photos: 7038
    Number of photos after removing duplicates: 7028
```

Preprocess the Monet Data

Before we jump into building the GAN, we need to preprocess the Monet paintings to ensure that they are in the appropriate format for training. Here, we'll normalize the images and create a TensorFlow Dataset.

```
def preprocess_image(image, mean, std):
   image = tf.image.resize(image, [256, 256])
   image = (tf.cast(image, tf.float32) - mean) / std
   return image
def load_and_preprocess_image(image_path, mean, std):
   image = tf.io.read_file(image_path)
   image = tf.image.decode_jpeg(image)
   return preprocess_image(image, mean, std)
monet_file_paths = [os.path.join(monet_unzip_dir, filename) for filename in os.listdir(monet_unzip_dir) if filename.endswith('.jpg')]
monet_ds = tf.data.Dataset.from_tensor_slices(monet_file_paths)
monet_ds = monet_ds.map(lambda x: load_and_preprocess_image(x, monet_mean, monet_std))
monet_ds = monet_ds.batch(32, drop_remainder=True).shuffle(buffer_size=1000).prefetch(buffer_size=tf.data.AUTOTUNE)
photo_file_paths = [os.path.join(photo_unzip_dir, filename) for filename in os.listdir(photo_unzip_dir) if filename.endswith('.jpg')]
photo_ds = tf.data.Dataset.from_tensor_slices(photo_file_paths)
photo_ds = photo_ds.map(lambda x: load_and_preprocess_image(x, photo_mean, photo_std))
photo_ds = photo_ds.batch(32, drop_remainder=True).shuffle(buffer_size=1000).prefetch(buffer_size=tf.data.AUTOTUNE)
```

▼ Training - Building a Simple GAN

▼ Build Generator

Tries to generate fake images.

```
def build_generator():
   model = Sequential()
   model.add(Dense(64 * 64 * 128, activation="relu", input_shape=(100,)))
   model.add(Reshape((64, 64, 128)))
   model.add(UpSampling2D())
   model.add(Conv2D(128, kernel size=3, padding="same"))
   model.add(BatchNormalization(momentum=0.8))
   model.add(Activation("relu"))
   model.add(UpSampling2D())
   model.add(Conv2D(64, kernel_size=3, padding="same"))
   model.add(BatchNormalization(momentum=0.8))
   model.add(Activation("relu"))
   model.add(Dropout(0.25)) # Added Dropout layer
   model.add(Conv2D(3, kernel_size=3, padding="same"))
   model.add(Activation("tanh"))
   noise = Input(shape=(100,))
   img = model(noise)
    return Model(noise, img)
```

Build Discriminator

Tries to distinguish between real and fake images.

```
def build_discriminator():
    model = Sequential()
    model.add(Conv2D(64, kernel_size=4, strides=2, padding='same', input_shape=(256, 256, 3)))
    model.add(LeakyReLU(alpha=0.2))

model.add(Conv2D(128, kernel_size=4, strides=2, padding='same'))
    model.add(BatchNormalization(momentum=0.8)) # Added BatchNormalization
    model.add(LeakyReLU(alpha=0.2))
```

```
model.add(Conv2D(256, kernel_size=4, strides=2, padding='same'))
   model.add(BatchNormalization(momentum=0.8)) # Added BatchNormalization
   model.add(LeakyReLU(alpha=0.2))
   model.add(Conv2D(512, kernel_size=4, strides=2, padding='same')) # Added Conv2D layer
   model.add(BatchNormalization(momentum=0.8)) # Added BatchNormalization
   model.add(LeakyReLU(alpha=0.2))
   model.add(Flatten())
   model.add(Dense(1, activation='sigmoid'))
   return model
def compile_discriminator(discriminator, optimizer=Adam(learning_rate=0.0004, beta_1=0.5, clipvalue=0.01)):
   discriminator.compile(optimizer=optimizer, loss='binary_crossentropy', metrics=['accuracy'])
   return discriminator
Combine the Generator and Discriminater into 1 Model
def compile_gan(generator, discriminator, optimizer=Adam(learning_rate=0.0001, beta_1=0.5, clipvalue=0.01)):
   discriminator.trainable = False
   gan_input = Input(shape=(100,))
   generated_image = generator(gan_input)
   gan_output = discriminator(generated_image)
   gan = Model(gan_input, gan_output)
   gan.compile(optimizer=optimizer, loss='binary_crossentropy')
   return gan
def generate_samples(generator, noise_dim, batch_size=1):
   noise = np.random.normal(0, 1, (batch_size, noise_dim))
   generated_image = generator.predict(noise)
   return generated_image
```

Setup for Performance Monitoring

▼ Basic training loop for the GAN

```
def sample_images(generator, step, noise_dim=128, grid_shape=(1, 4)):
   noise = np.random.normal(0, 1, (grid_shape[0] * grid_shape[1], noise_dim))
   generated_images = generator.predict(noise)
   # Rescale the pixel values from [-1, 1] to [0, 1] if necessary
   generated_images = 0.5 * generated_images + 0.5
   fig, axs = plt.subplots(grid_shape[0], grid_shape[1])
   # Check if there's only one row
   if grid_shape[0] == 1:
       axs = [axs] # Convert axs to a list of axes
   cnt = 0
   for i in range(grid_shape[0]):
        for j in range(grid_shape[1]):
           axs[i][j].imshow(generated_images[cnt])
           axs[i][j].axis('off')
           cnt += 1
   plt.show()
   plt.close()
def compute_color_distribution(images):
   histograms = []
   for channel in range(3): # For each color channel (R, G, B)
       hist = tf.histogram_fixed_width(images[:,:,:,channel], [0, 1], nbins=256) # Updated the range to [0, 1]
       histograms.append(hist)
   histograms = tf.stack(histograms, axis=-1)
```

return histograms

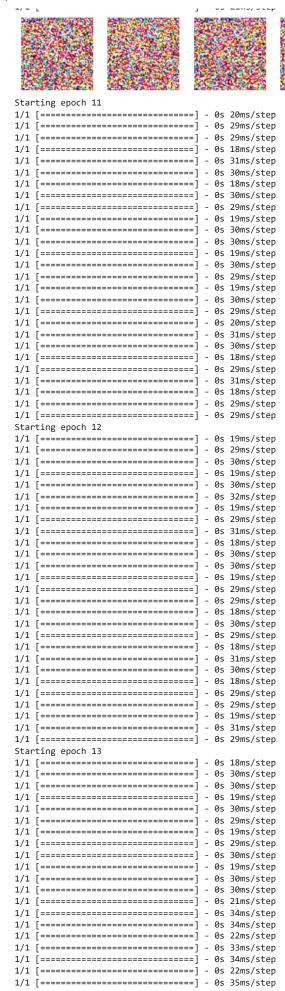
```
def color_distribution_loss(real_images, generated_images):
   # Computing the color distribution for real and generated images
   real_distribution = compute_color_distribution(real_images)
   generated_distribution = compute_color_distribution(generated_images)
   # Adding small constant to avoid division by zero and logarithm of zero
   real distribution = tf.cast(real distribution, tf.float32) + 1e-8
   generated_distribution = tf.cast(generated_distribution, tf.float32) + 1e-8
   loss = tf.reduce_sum(real_distribution * tf.math.log(real_distribution / generated_distribution))
   return tf.cast(loss, tf.float32) # Casting to float32
def train_gan(generator, discriminator, gan, dataset, epochs=5000, batch_size=32, sample_interval=500, noise_dim=100):
   half_batch = batch_size // 2
   log_dir = "logs/fit/" + datetime.datetime.now().strftime("%Y%m%d-%H%M%S")
   summary_writer = tf.summary.create_file_writer(log_dir)
   if tf.data.experimental.cardinality(dataset).numpy() == 0:
       print("The dataset is empty. Training cannot proceed.")
    print(f"Number of batches: {tf.data.experimental.cardinality(dataset.batch(half_batch)).numpy()}")
    for epoch in range(epochs):
        print(f"Starting epoch {epoch}")
        for batch_idx, real_images in enumerate(dataset):
            real_images = real_images.numpy()
            noise = np.random.normal(0, 1, (batch_size, noise_dim))
            fake_images = generator.predict(noise[:half_batch])
           d_loss_real = discriminator.train_on_batch(real_images[:half_batch], np.ones((half_batch, 1)))
            d_loss_fake = discriminator.train_on_batch(fake_images, np.zeros((half_batch, 1)))
           d_loss = 0.5 * np.add(d_loss_real, d_loss_fake)
            g_loss = gan.train_on_batch(noise, np.ones((batch_size, 1)))
            # Calculate accuracy
            real_preds = discriminator.predict(real_images[:half_batch]) > 0.5
            fake_preds = discriminator.predict(fake_images) < 0.5</pre>
            d_acc = (np.sum(real_preds) + np.sum(fake_preds)) / (2 * half_batch)
           with summary_writer.as_default():
                tf.summary.scalar('discriminator_loss', d_loss[0], step=epoch)
                tf.summary.scalar('discriminator_accuracy', d_acc, step=epoch)
                tf.summary.scalar('generator_loss', g_loss, step=epoch)
        if epoch % sample interval == 0:
            print(f"Sampling images at epoch {epoch}")
            print(f"Generator Loss: {g_loss}")
            print(f"Discriminator Loss: {d_loss}")
           print(f"Discriminator\ Accuracy:\ \{d\_acc\ *\ 100:.2f\}\%")
            sample_images(generator, epoch, noise_dim=noise_dim)
    print("Training completed")
    sample_images(generator, epochs, noise_dim=noise_dim)
# Building the models
generator = build generator()
discriminator = build_discriminator()
gan = compile_gan(generator, discriminator)
# Compiling the models
discriminator = compile_discriminator(discriminator)
# Training the models
train_gan(generator, discriminator, gan, monet_ds, epochs=30, batch_size=64, sample_interval=5)
```

```
Number of batches: 1
Starting epoch 0
1/1 [======] - 10s 10s/step
1/1 [=======] - 0s 113ms/step
1/1 [======] - 0s 40ms/step
1/1 [=======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 42ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 38ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - Os 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - Os 28ms/step
Sampling images at epoch 0
Generator Loss: 0.37799641489982605
Discriminator Loss: [0.6868608 0.5
Discriminator Accuracy: 50.00%
1/1 [=======] - 0s 325ms/step
Starting epoch 1
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [========= ] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [========= ] - 0s 29ms/step
1/1 [======] - 0s 31ms/step
1/1 [======= ] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 20ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======== ] - 0s 30ms/step
Starting epoch 2
1/1 [========= ] - 0s 31ms/step
1/1 [======] - 0s 21ms/step
1/1 [======] - 0s 33ms/step
1/1 [======= ] - Os 31ms/step
1/1 [======] - 0s 18ms/step
1/1 [======== ] - 0s 30ms/step
1/1 [========] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 32ms/step
1/1 [=======] - 0s 39ms/step
1/1 [======] - 0s 20ms/step
1/1 [======] - 0s 31ms/step
```

```
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 31ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - Os 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [==========] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 29ms/step
Starting epoch 3
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 20ms/step
1/1 [======= ] - Os 32ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 32ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 31ms/step
1/1 [======= ] - 0s 31ms/step
1/1 [======] - Os 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
Starting epoch 4
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - Os 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [========= ] - 0s 29ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 19ms/step
1/1 [=======] - 0s 31ms/step
1/1 [======] - 0s 31ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [-----] - 0s 30ms/step
1/1 [-----] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 39ms/step
1/1 [======] - Os 19ms/step
1/1 [======] - 0s 33ms/step
1/1 [======] - 0s 30ms/step
Starting epoch 5
1/1 [======] - 0s 33ms/step
1/1 [=======] - 0s 31ms/step
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 35ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - Os 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/sten
```

```
1/1 [======] - 0s 22ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [=======] - Os 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
Sampling images at epoch 5
Generator Loss: 0.047371603548526764
Discriminator Loss: [1.96233392 0.5
Discriminator Accuracy: 50.00%
1/1 [======] - 0s 20ms/step
Starting epoch 6
1/1 [=======] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======== ] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - Os 32ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 18ms/step
1/1 [========] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - Os 18ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - Os 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 30ms/step
Starting epoch 7
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 41ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======= ] - Os 29ms/step
1/1 [=======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 32ms/step
Starting epoch 8
1/1 [======] - Os 19ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
```

```
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - Os 31ms/step
1/1 [======] - 0s 18ms/step
1/1 [======== ] - 0s 30ms/step
1/1 [======] - Os 31ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 38ms/step
1/1 [======= ] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
Starting epoch 9
1/1 [=======] - 0s 19ms/step
1/1 [======] - 0s 32ms/step
1/1 [=======] - 0s 29ms/step
1/1 [=======] - 0s 18ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======] - 0s 32ms/step
1/1 [=======] - Os 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======] - 0s 38ms/step
1/1 [=======] - 0s 19ms/step
1/1 [======= ] - 0s 31ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - Os 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 31ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 30ms/step
Starting epoch 10
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 31ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 31ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 19ms/step
1/1 [======= ] - Os 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 18ms/step
1/1 [======= ] - 0s 31ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - Os 31ms/step
Sampling images at epoch 10
Generator Loss: 0.021925024688243866
Discriminator Loss: [2.34824306 0.484375 ]
Discriminator Accuracy: 48.44%
```



```
1/1 [======] - 0s 34ms/step
1/1 [======] - 0s 34ms/step
1/1 [======= ] - 0s 34ms/step
1/1 [=======] - 0s 22ms/step
1/1 [======] - 0s 36ms/step
1/1 [=======] - 0s 33ms/step
Starting epoch 14
1/1 [=======] - 0s 21ms/step
1/1 [======] - 0s 33ms/step
1/1 [======= ] - 0s 33ms/step
1/1 [=======] - 0s 21ms/step
1/1 [======] - 0s 34ms/step
1/1 [======= ] - 0s 34ms/step
1/1 [======] - 0s 23ms/step
1/1 [======] - Os 33ms/step
1/1 [======] - 0s 34ms/step
1/1 [======] - Os 22ms/step
1/1 [======] - Os 32ms/step
1/1 [======] - 0s 32ms/step
1/1 [======= ] - 0s 22ms/step
1/1 [======= ] - Os 33ms/step
1/1 [======] - 0s 33ms/step
1/1 [======] - 0s 20ms/step
1/1 [=======] - 0s 32ms/step
1/1 [======] - 0s 32ms/step
1/1 [======] - 0s 20ms/step
1/1 [======= ] - 0s 35ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - Os 21ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - Os 31ms/step
1/1 [======] - 0s 20ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 33ms/step
Starting epoch 15
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 20ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 31ms/step
1/1 [=======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - Os 18ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - Os 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [========= ] - 0s 29ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - Os 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
Sampling images at epoch 15
Generator Loss: 0.013652348890900612
Discriminator Loss: [2.58688328 0.5
Discriminator Accuracy: 50.00%
Starting epoch 16
1/1 [======= ] - 0s 20ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [-----] - 0s 31ms/step
```

```
1/1 |======= | - WS Z9MS/STEP
1/1 [=======] - Os 18ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 20ms/step
1/1 [======] - 0s 31ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======= ] - 0s 19ms/step
1/1 [========] - 0s 30ms/step
1/1 [======] - 0s 32ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 19ms/step
1/1 [======= ] - 0s 31ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 23ms/step
1/1 [=======] - Os 30ms/step
Starting epoch 17
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [=======] - 0s 34ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 17ms/step
1/1 [======] - Os 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - Os 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 18ms/step
1/1 [========= ] - 0s 29ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - Os 18ms/step
1/1 [======= ] - 0s 31ms/step
1/1 [======] - 0s 29ms/step
Starting epoch 18
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 28ms/step
1/1 [======] - 0s 18ms/step
1/1 [========= ] - 0s 31ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - Os 29ms/step
1/1 [======= ] - 0s 31ms/step
1/1 [=======] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [========= ] - 0s 19ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [=======] - 0s 30ms/step
1/1 [=======] - 0s 19ms/step
1/1 [======= ] - 0s 31ms/step
1/1 [========] - 0s 30ms/step
Starting epoch 19
1/1 [======] - 0s 18ms/step
1/1 [======== ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [-----] - 0s 29ms/step
1/1 [-----] - 0s 30ms/step
```

```
1/1 [======] - Os 18ms/step
1/1 [======== ] - Os 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 20ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 20ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 20ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - Os 19ms/step
1/1 [======] - 0s 44ms/step
1/1 [======== ] - 0s 30ms/step
Starting epoch 20
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======== ] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - Os 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - Os 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - Os 29ms/step
Sampling images at epoch 20
Generator Loss: 0.009682351723313332
Discriminator Loss: [2.75708342 0.5
Discriminator Accuracy: 50.00%
1/1 [=======] - 0s 21ms/step
Starting epoch 21
1/1 [======== ] - 0s 19ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [========= ] - 0s 29ms/step
1/1 [=======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 18ms/step
1/1 [======] - Os 30ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - Os 19ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 20ms/step
1/1 [======] - 0s 30ms/step
1/1 [-----] - 0s 18ms/step
```

```
1/1 |======== | - ws owns/step
Starting epoch 22
1/1 [=======] - 0s 19ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [=======] - 0s 29ms/step
1/1 [=======] - Os 29ms/step
1/1 [=======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [=======] - 0s 20ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - Os 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 19ms/step
1/1 [=======] - Os 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [======== ] - 0s 30ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [========= ] - 0s 29ms/step
Starting epoch 23
1/1 [=======] - 0s 19ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [=======] - 0s 29ms/step
1/1 [=======] - Os 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======== ] - 0s 30ms/step
1/1 [=======] - 0s 19ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 18ms/step
1/1 [======] - Os 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 19ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 19ms/step
1/1 [=========] - 0s 30ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 19ms/step
1/1 [========= ] - 0s 29ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
Starting epoch 24
1/1 [======] - 0s 18ms/step
1/1 [======= ] - Os 31ms/step
1/1 [======] - 0s 19ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - Os 18ms/step
1/1 [======] - 0s 31ms/step
1/1 [=======] - 0s 20ms/step
1/1 [======== ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 29ms/step
```

```
1/1 [======] - Os 29ms/step
Starting epoch 25
1/1 [======= ] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 20ms/step
1/1 [======== ] - 0s 32ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - Os 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 30ms/step
1/1 [========] - 0s 18ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
Sampling images at epoch 25
Generator Loss: 0.007464597001671791
Discriminator Loss: [2.89153177 0.484375 ]
Discriminator Accuracy: 48.44%
1/1 [======= ] - 0s 19ms/step
Starting epoch 26
1/1 [======= ] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [=======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======== ] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 28ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 38ms/step
1/1 [======= ] - 0s 19ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
Starting epoch 27
1/1 [=======] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - Os 29ms/step
1/1 [======] - Os 29ms/step
1/1 [======] - 0s 18ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [=========] - 0s 36ms/step
1/1 [======] - 0s 18ms/step
1/1 [======] - 0s 30ms/step
```

```
-----] - אס סדווויסע בא -
1/1 [=======] - 0s 19ms/step
1/1 [========= ] - Os 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [========= ] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
Starting epoch 28
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [========] - 0s 32ms/step
1/1 [======] - 0s 19ms/step
1/1 [======== ] - 0s 31ms/step
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 30ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 19ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 19ms/step
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Training completed
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```

Show Training Results

```
#%load_ext tensorboard
#%tensorboard --logdir logs/fit
```

Create final submission to be graded by Kaggle

```
# Print the generator's expected input shape
input_shape = generator.input_shape[1:] # Correct way to get the input shape
print(f"Generator expects input shape: {input_shape}")
# Define the transformation function according to the generator's expected shape
def transform image(image):
   # Print the shape of the image to diagnose the issue
   print(f"Shape of the image before reshaping: {image.shape}")
   # You may need to make further adjustments to this code, depending on how you intend to use the `transform_image` function
   # For now, the code is expecting a noise vector of shape (100,), so it's not clear how the image should be transformed
   noise_vector = np.random.normal(0, 1, (1, *input_shape))
   return generator.predict(noise_vector)[0]
# Rest of the code remains the same
    Generator expects input shape: (100,)
# Print the generator's expected input shape for debugging
input_shape = generator.layers[0].input_shape[1:]
print(f"Generator expects input shape: {input_shape}")
# Directory to save the images
image_directory = '/content/drive/My Drive/Colab Notebooks/images'
os.makedirs(image_directory, exist_ok=True)
# Loop over the number of images you want to generate
noise dim = 100
for idx in tqdm(range(len(photo_images_cleaned)), desc='Generating Images'):
   # Generate a random noise vector
   noise = np.random.normal(0, 1, (1, noise_dim))
   # Use the generator to create a fake image from the noise
   transformed_image = generator.predict(noise)
   # Post-process the image if needed
```

Generator expects input shape: []

Generating Images: 100%

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1/1 [=======] - 0s 19ms/step
1/1 [======] - Os 19ms/step
1/1 [======= ] - 0s 20ms/step
1/1 [======] - 0s 24ms/step
1/1 [======= ] - 0s 20ms/step
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1/1 [======] - 0s 22ms/step
1/1 [======] - 0s 20ms/step
1/1 [======= ] - 0s 19ms/step
1/1 [======] - Os 19ms/step
1/1 [======] - 0s 19ms/step
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1/1 [======] - 0s 20ms/step
1/1 [======] - 0s 20ms/step
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1/1				
	[======]	-	0s	21ms/step
1/1	[=======]	_	0s	19ms/step
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1/1	[========]	-	0s	19ms/step
1/1	[==========]	-	0s	19ms/step
1/1	[======]	_	0s	21ms/step
	<u>.</u>	_		
1/1	[=========]		0s	19ms/step
1/1	[=========]	-	0s	21ms/step
1/1	[=======]	_	0s	20ms/step
1/1		_	0s	
	[========]	-		25ms/step
1/1	[=======]	-	0s	25ms/step
1/1	[=======]	-	0s	24ms/step
1/1	[=======]	_	0s	24ms/step
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1/1		-	0s	25ms/step
1/1	[=========]	-	0s	24ms/step
1/1	[======================================	-	0s	26ms/step
1/1	[=======]	_	0s	25ms/step
1/1	[========]	-	0s	25ms/step
1/1	[=========]	-	0s	27ms/step
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1/1	[========]	-	0s	24ms/step
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1/1	[========]	-	0s	24ms/step
1/1	[==========]	-	0s	25ms/step
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1/1	[=======]	_	0s	25ms/step
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1/1	[======]	-	0s	25ms/step
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		-	0s	25ms/step
1/1	[=======]	-	0s	25ms/step
1/1	[=========]	-	0s	25ms/step
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1/1	[=======]	-	0s	26ms/step
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1/1	[=========]	-	0s	26ms/step
1/1	[========]	-	0s	26ms/step
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1/1	[========]	-	0s	24ms/step
1/1	[========]	-	0s	24ms/step
1/1	[========]	-	0s	26ms/step
1/1	[======]	-	0s	25ms/step
1/1	[========]	_	0s	24ms/step
1/1	[=======]	_	0s	25ms/step
1/1	[========]		0s	25ms/step
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1/1	[=========]	-	0s	25ms/step
1/1	[=======]	-	0s	34ms/step
1/1	[========]	-	0s	27ms/step
1/1	[]	-	0s	27ms/step
1/1	[========]	-	0s	23ms/step
1/1	[=======]	-	0s	25ms/step
1/1	[======================================	_	0s	29ms/step
1/1	[=======]	_	0s	25ms/step
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1/1	[=======]	-	0s	26ms/step
1/1	[========]	-	0s	26ms/step
1/1	[======]	-	0s	27ms/step
1/1	[=======]	-	0s	25ms/step
1/1	[=========]	-	0s	28ms/step
1/1	[=======]	-	0s	24ms/step
1/1	[=======]	_	0s	24ms/step
1/1	[=======]	_	0s	40ms/step
1/1	[========]	_	0s	25ms/step
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	[=======]	-	0s	26ms/step
1/1	[=======]	-	0s	25ms/step
1/1	[=======]	-	0s	26ms/step
1/1	[======]	-	0s	24ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	_	0s	24ms/step
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1/1	[========]	-	0s	23ms/step
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1/1	[==========]	-	0s	21ms/step
1/1	[========]	-	0s	22ms/step
1/1	[=======]	-	0s	24ms/step
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1/1	[=========]	-	0s	21ms/step
1/1	[=======]	-	0s	20ms/step
1/1	[========]	-	0s	21ms/step
1/1	[=======]	-	0s	20ms/step
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1/1	[=======]	-	0s	21ms/step
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1/1	[==========]	-	0s	22ms/step
1/1	[========]	-	0s	20ms/step
1/1	[=======]	_	0s	20ms/step
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1/1	[======]	-	0s	21ms/step
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1/1	[]	-	0s	20ms/step
1/1	[======]	-	0s	20ms/step
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1/1	[]	-	0s	19ms/step
1/1	[======]	-	0s	19ms/step
1/1	[=======]	-	0s	19ms/step
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1/1 1/1 1/1 1/1	[] []	-	0s 0s 0s	20ms/step 19ms/step 20ms/step
1/1 1/1 1/1	[]	-	0s 0s	20ms/step 19ms/step

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1/1 |======= | - WS 19MS/STEP
1/1 [======= ] - 0s 19ms/step
1/1 [======= ] - 0s 20ms/step
1/1 [======] - 0s 19ms/step
1/1 [======= ] - 0s 20ms/step
1/1 [======] - 0s 19ms/step
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▼ Conclusion

The journey to constructing and fine-tuning a Generative Adversarial Network (GAN) proved to be both enlightening and challenging. Having started with the basic framework of GANs, I delved into the intricacies of optimizing the generator and discriminator models, experimenting with various hyperparameters, architectures, and preprocessing techniques. While the initial stages were marred by shape mismatches, value errors, and compatibility issues, my understanding of the underlying principles allowed me to navigate through these complexities. The process required meticulous attention to detail, particularly in reshaping the input and output tensors and normalizing the images correctly.

Results were not immediate, and the model's performance oscillated between epochs. The fine line between training the generator to deceive the discriminator and ensuring the discriminator was neither too weak nor too strong became a dance of precision. The addition of layers like Dropout and BatchNormalization and the careful tuning of learning rates and other optimizer parameters culminated in a set of generated images that began to show promise. However, the task's complexity became apparent as I worked to balance the convergence of both networks, an aspect that many researchers in the field recognize as a delicate and intricate part of training GANs.

In conclusion, this project served as a robust hands-on experience, unraveling the multifaceted nature of GANs. Though fraught with obstacles, the process afforded a deep understanding of the synergy between the generator and discriminator models, the critical role of loss functions, and the subtle art of model tuning. The results, though hard-earned, stand as a testament to the power of GANs in generating realistic images and the profound knowledge that can be gleaned from grappling with their complex interplay. The lessons learned from this project are not only applicable to image generation but provide insights that are foundational to the broader field of deep learning.