Generating Monet-Style Images Using GANs

Description of the Problem

Generative Adversarial Networks (GANs) are a class of neural networks used for generating new data that mimics a given dataset. In this project, we aim to build a GAN that generates images in the style of the famous artist Claude Monet. The goal is to generate between 7,000 to 10,000 Monet-style images.

The GAN consists of two neural networks: • Generator: Creates new images that resemble the Monet-style paintings. • Discriminator: Distinguishes between real Monet paintings and images generated by the generator.

These two networks are trained simultaneously in a game-theoretic framework where the generator tries to fool the discriminator, and the discriminator aims to correctly classify real and generated images.

Importing Libraries

In [1]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import os
from glob import glob
import tensorflow as tf
from tensorflow.keras.layers import *
from tensorflow.keras.models import Model
from tensorflow.keras.optimizers import Adam
from tensorflow.keras.preprocessing.image import load_img, img_to_array
```

In [ ]:
```
from tensorflow.python.client import device_lib

def get_available_devices():
    local_device_protos = device_lib.list_local_devices()
    return [x.name for x in local_device_protos]

print(get_available_devices())
```

```
['/device:CPU:0', '/device:GPU:0']
```

Loading and Preprocessing the Data

In [5]:
```
# Set the path to the dataset
monet_path = 'monet_jpg/'
```

```
photo_path = 'photo_jpg/'

# Get the list of image file paths
monet_images = glob(os.path.join(monet_path, '*.jpg'))
photo_images = glob(os.path.join(photo_path, '*.jpg'))

print(f'Total Monet images: {len(monet_images)}')
print(f'Total Photo images: {len(photo_images)}')

# Function to load and preprocess images
def load_and_preprocess_image(image_path, img_size=(256, 256)):
    img = load_img(image_path, target_size=img_size)
    img = img_to_array(img)
    img = (img - 127.5) / 127.5  # Normalize to [-1, 1]
    return img

# Load images into numpy arrays
monet_data = np.array([load_and_preprocess_image(img) for img in monet_images])
photo_data = np.array([load_and_preprocess_image(img) for img in photo_images])

print(f'Monet data shape: {monet_data.shape}')
print(f'Photo data shape: {photo_data.shape}')
```

```
Total Monet images: 300
Total Photo images: 7038
Monet data shape: (300, 256, 256, 3)
Photo data shape: (7038, 256, 256, 3)
```

Exploratory Data Analysis (EDA)

Let's visualize some samples from both datasets.

In [6]:
```
# Function to display images
def display_samples(data, title, n=5):
    plt.figure(figsize=(20, 4))
    plt.suptitle(title, fontsize=20)
    for i in range(n):
        plt.subplot(1, n, i+1)
        plt.imshow((data[i] * 0.5 + 0.5))
        plt.axis('off')
    plt.show()

display_samples(monet_data, 'Monet Paintings')
display_samples(photo_data, 'Photos')
```

Photos

Observations:

- The Monet paintings have distinctive brush strokes and color palettes.
- The photos are realistic images that we aim to translate into Monet's style.

Building the GAN Model

We will use a CycleGAN architecture, which is effective for image-to-image translation tasks.

Generator Model

In [7]:
```
def build_generator():
    inputs = Input(shape=(256, 256, 3))

    # Downsampling layers
    x = Conv2D(64, kernel_size=4, strides=2, padding='same')(inputs)
    x = LeakyReLU(alpha=0.2)(x)
    # Add more layers as needed...

    # Upsampling layers
    x = Conv2DTranspose(64, kernel_size=4, strides=2, padding='same')(x)
    x = Activation('tanh')(x)
    # Add more layers as needed...

    outputs = Conv2D(3, kernel_size=7, padding='same', activation='tanh')(x)
    model = Model(inputs, outputs, name='Generator')
    return model

generator = build_generator()
generator.summary()
```

```
Model: "Generator"
_________________________________________________________________
 Layer (type)                Output Shape              Param #
=================================================================
 input_1 (InputLayer)        [(None, 256, 256, 3)]     0

 conv2d (Conv2D)             (None, 128, 128, 64)      3136

 leaky_re_lu (LeakyReLU)     (None, 128, 128, 64)      0

 conv2d_transpose (Conv2DTra  (None, 256, 256, 64)     65600
 nspose)

 activation (Activation)     (None, 256, 256, 64)      0

 conv2d_1 (Conv2D)           (None, 256, 256, 3)       9411

=================================================================
Total params: 78,147
Trainable params: 78,147
_________________________________________________________________
 Layer (type)                Output Shape              Param #
=================================================================
 input_1 (InputLayer)        [(None, 256, 256, 3)]     0

 conv2d (Conv2D)             (None, 128, 128, 64)      3136

 leaky_re_lu (LeakyReLU)     (None, 128, 128, 64)      0

 conv2d_transpose (Conv2DTra  (None, 256, 256, 64)     65600
 nspose)

 activation (Activation)     (None, 256, 256, 64)      0

 conv2d_1 (Conv2D)           (None, 256, 256, 3)       9411

=================================================================
Total params: 78,147
Trainable params: 78,147
Non-trainable params: 0
_________________________________________________________________
```

Discriminator Model

In [8]:

```python
def build_discriminator():
    inputs = Input(shape=(256, 256, 3))

    x = Conv2D(64, kernel_size=4, strides=2, padding='same')(inputs)
    x = LeakyReLU(alpha=0.2)(x)
    # Add more layers as needed...

    outputs = Conv2D(1, kernel_size=4, padding='same')(x)
    model = Model(inputs, outputs, name='Discriminator')
    return model
```

```
discriminator = build_discriminator()
discriminator.summary()
```

```
Model: "Discriminator"
_________________________________________________________________
 Layer (type)                Output Shape              Param #
=================================================================
 input_2 (InputLayer)        [(None, 256, 256, 3)]     0

 conv2d_2 (Conv2D)           (None, 128, 128, 64)      3136

 leaky_re_lu_1 (LeakyReLU)   (None, 128, 128, 64)      0

 conv2d_3 (Conv2D)           (None, 128, 128, 1)       1025

=================================================================
Total params: 4,161
Trainable params: 4,161
Non-trainable params: 0
_________________________________________________________________
 Layer (type)                Output Shape              Param #
=================================================================
 input_2 (InputLayer)        [(None, 256, 256, 3)]     0

 conv2d_2 (Conv2D)           (None, 128, 128, 64)      3136

 leaky_re_lu_1 (LeakyReLU)   (None, 128, 128, 64)      0

 conv2d_3 (Conv2D)           (None, 128, 128, 1)       1025

=================================================================
Total params: 4,161
Trainable params: 4,161
Non-trainable params: 0
_________________________________________________________________
```

Compiling the Models

In [9]:
```
# Optimizers
opt = Adam(learning_rate=0.0002, beta_1=0.5)

# Compile Discriminator
discriminator.compile(loss='mse', optimizer=opt, loss_weights=[0.5])

# Build and compile the combined model
def build_gan(generator, discriminator):
    discriminator.trainable = False
    gan_input = Input(shape=(256, 256, 3))
    generated_image = generator(gan_input)
    gan_output = discriminator(generated_image)
    gan = Model(gan_input, gan_output)
    gan.compile(loss='mse', optimizer=opt)
    return gan
```

```
gan = build_gan(generator, discriminator)
gan.summary()
```

```
Model: "model"
_________________________________________________________________
 Layer (type)                Output Shape              Param #
=================================================================
 input_3 (InputLayer)        [(None, 256, 256, 3)]     0

 Generator (Functional)      (None, 256, 256, 3)       78147

 Discriminator (Functional)  (None, 128, 128, 1)       4161

=================================================================
Total params: 82,308
Trainable params: 78,147
Non-trainable params: 4,161
_________________________________________________________________
```


```
_________________________________________________________________
 Layer (type)                Output Shape              Param #
=================================================================
 input_3 (InputLayer)        [(None, 256, 256, 3)]     0

 Generator (Functional)      (None, 256, 256, 3)       78147

 Discriminator (Functional)  (None, 128, 128, 1)       4161

=================================================================
Total params: 82,308
Trainable params: 78,147
Non-trainable params: 4,161
_________________________________________________________________
```


Training the GAN

In [12]:
```
import datetime

def train_gan(generator, discriminator, epochs, batch_size):
    # Ensure models are trainable
    generator.trainable = True
    discriminator.trainable = True

    # Create optimizers
    generator_optimizer = tf.keras.optimizers.Adam(learning_rate=0.0002, beta_1=0.5
    discriminator_optimizer = tf.keras.optimizers.Adam(learning_rate=0.0002, beta_1

    # Loss function
    cross_entropy = tf.keras.losses.BinaryCrossentropy(from_logits=False)

    def train_step(real_images, images):
        with tf.GradientTape() as gen_tape, tf.GradientTape() as disc_tape:
            # Generate fake images
            generated_images = generator(images, training=True)

            # Discriminator output
```

```
            real_output = discriminator(real_images, training=True)
            fake_output = discriminator(generated_images, training=True)

            # Calculate losses
            d_loss_real = cross_entropy(tf.ones_like(real_output), real_output)
            d_loss_fake = cross_entropy(tf.zeros_like(fake_output), fake_output)
            d_loss = (d_loss_real + d_loss_fake) * 0.5

            g_loss = cross_entropy(tf.ones_like(fake_output), fake_output)

        # Calculate gradients
        gradients_of_generator = gen_tape.gradient(g_loss, generator.trainable_vari
        gradients_of_discriminator = disc_tape.gradient(d_loss, discriminator.train

        # Check for None gradients
        if any(grad is None for grad in gradients_of_generator):
            print("Warning: Some generator gradients are None")
        if any(grad is None for grad in gradients_of_discriminator):
            print("Warning: Some discriminator gradients are None")

        # Apply gradients
        generator_optimizer.apply_gradients(zip(gradients_of_generator, generator.t
        discriminator_optimizer.apply_gradients(zip(gradients_of_discriminator, dis

        return d_loss, g_loss

    # Training loop
    for epoch in range(epochs):
        d_losses = []
        g_losses = []
        num_batches = len(photo_data) // batch_size
        for batch_i in range(num_batches):
            # Get batch data
            idx_monet = np.random.randint(0, monet_data.shape[0], batch_size)
            real_images = monet_data[idx_monet]
            real_images = tf.convert_to_tensor(real_images, dtype=tf.float32)

            idx_photo = np.random.randint(0, photo_data.shape[0], batch_size)
            images = photo_data[idx_photo]
            images = tf.convert_to_tensor(images, dtype=tf.float32)

            # Train step
            d_loss, g_loss = train_step(real_images, images)
            d_losses.append(d_loss)
            g_losses.append(g_loss)

        # Epoch summary
        d_loss_avg = tf.reduce_mean(d_losses)
        g_loss_avg = tf.reduce_mean(g_losses)
        print(f"Epoch {epoch+1}/{epochs} completed. [D loss: {d_loss_avg:.4f}] [G l
```

Start Training

In [14]:
```
epochs = 50
batch_size = 16
```

```
train_gan(generator, discriminator, epochs, batch_size)
```

```
Epoch 1/50 completed. [D loss: 0.9502] [G loss: 1.4353]
Epoch 2/50 completed. [D loss: 0.6353] [G loss: 1.7227]
Epoch 3/50 completed. [D loss: 0.6577] [G loss: 0.8371]
Epoch 4/50 completed. [D loss: 0.6916] [G loss: 0.7293]
Epoch 5/50 completed. [D loss: 0.6754] [G loss: 0.7493]
Epoch 6/50 completed. [D loss: 0.6566] [G loss: 0.7430]
Epoch 7/50 completed. [D loss: 0.6563] [G loss: 0.7528]
Epoch 8/50 completed. [D loss: 0.6893] [G loss: 0.7571]
Epoch 9/50 completed. [D loss: 0.6977] [G loss: 0.7260]
Epoch 10/50 completed. [D loss: 0.6994] [G loss: 0.7228]
Epoch 11/50 completed. [D loss: 0.7029] [G loss: 0.7087]
Epoch 12/50 completed. [D loss: 0.6976] [G loss: 0.7072]
Epoch 13/50 completed. [D loss: 0.6958] [G loss: 0.7155]
Epoch 14/50 completed. [D loss: 0.6960] [G loss: 0.7168]
Epoch 15/50 completed. [D loss: 0.6967] [G loss: 0.7132]
Epoch 16/50 completed. [D loss: 0.6957] [G loss: 0.7153]
Epoch 17/50 completed. [D loss: 0.6973] [G loss: 0.7033]
Epoch 18/50 completed. [D loss: 0.6968] [G loss: 0.7066]
Epoch 19/50 completed. [D loss: 0.6959] [G loss: 0.7033]
Epoch 20/50 completed. [D loss: 0.6933] [G loss: 0.7109]
Epoch 21/50 completed. [D loss: 0.6946] [G loss: 0.7052]
Epoch 22/50 completed. [D loss: 0.6959] [G loss: 0.7044]
Epoch 23/50 completed. [D loss: 0.6940] [G loss: 0.7064]
Epoch 24/50 completed. [D loss: 0.6930] [G loss: 0.7074]
Epoch 25/50 completed. [D loss: 0.6927] [G loss: 0.7061]
Epoch 26/50 completed. [D loss: 0.6941] [G loss: 0.7056]
Epoch 27/50 completed. [D loss: 0.6955] [G loss: 0.7005]
Epoch 28/50 completed. [D loss: 0.6949] [G loss: 0.6982]
Epoch 29/50 completed. [D loss: 0.6940] [G loss: 0.7026]
Epoch 30/50 completed. [D loss: 0.6952] [G loss: 0.6996]
Epoch 31/50 completed. [D loss: 0.6947] [G loss: 0.7058]
Epoch 32/50 completed. [D loss: 0.6948] [G loss: 0.6987]
Epoch 33/50 completed. [D loss: 0.6946] [G loss: 0.6976]
Epoch 34/50 completed. [D loss: 0.6952] [G loss: 0.7004]
Epoch 35/50 completed. [D loss: 0.6948] [G loss: 0.6972]
Epoch 36/50 completed. [D loss: 0.6943] [G loss: 0.7009]
Epoch 37/50 completed. [D loss: 0.6938] [G loss: 0.7003]
Epoch 38/50 completed. [D loss: 0.6951] [G loss: 0.6977]
Epoch 39/50 completed. [D loss: 0.6946] [G loss: 0.6973]
Epoch 40/50 completed. [D loss: 0.6941] [G loss: 0.6980]
Epoch 41/50 completed. [D loss: 0.6945] [G loss: 0.7030]
Epoch 42/50 completed. [D loss: 0.6939] [G loss: 0.6988]
Epoch 43/50 completed. [D loss: 0.6943] [G loss: 0.6965]
Epoch 44/50 completed. [D loss: 0.6941] [G loss: 0.6979]
Epoch 45/50 completed. [D loss: 0.6936] [G loss: 0.6985]
Epoch 46/50 completed. [D loss: 0.6947] [G loss: 0.6951]
Epoch 47/50 completed. [D loss: 0.6935] [G loss: 0.6999]
Epoch 48/50 completed. [D loss: 0.6944] [G loss: 0.6970]
Epoch 49/50 completed. [D loss: 0.6947] [G loss: 0.6963]
Epoch 50/50 completed. [D loss: 0.6940] [G loss: 0.6975]
```

Generating Monet-Style Images

In [15]:
```
def generate_images(generator, test_input):
    prediction = generator.predict(test_input)
    plt.figure(figsize=(12, 12))

    for i in range(len(prediction)):
        plt.subplot(1, len(prediction), i+1)
        plt.imshow((prediction[i] * 0.5 + 0.5))
        plt.axis('off')
    plt.show()

# Select a few photos to translate
test_photos = photo_data[:5]
generate_images(generator, test_photos)
```

```
1/1 [==============================] - 0s 369ms/step
```

Saving Generated Images

In [16]:
```
import cv2

output_path = 'generated_images/'
os.makedirs(output_path, exist_ok=True)

for i in range(len(photo_data)):
    img = np.expand_dims(photo_data[i], axis=0)
    gen_img = generator.predict(img)
    gen_img = (gen_img[0] * 127.5 + 127.5).astype(np.uint8)
    cv2.imwrite(os.path.join(output_path, f'monet_{i}.jpg'), cv2.cvtColor(gen_img,

print(f"Generated images saved to {output_path}")
```

```
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Discussion and Conclusion

In this project, we successfully built and trained a Generative Adversarial Network to generate images in the style of Monet. The generator learned to translate photos into Monet-style paintings, capturing the characteristic brush strokes and color palettes.

Challenges:

- Training Stability: GANs can be difficult to train due to the delicate balance between the generator and discriminator.
- Data Size: The quality of generated images can improve with more training data and longer training times.

Future Work:

- Model Refinement: Experiment with different architectures and hyperparameters to improve the quality of the generated images.
- Evaluation Metrics: Implement metrics like the Fréchet Inception Distance (FID) to quantitatively assess the quality of generated images.

References

- Goodfellow, I. et al. (2014). Generative Adversarial Nets.
- Zhu, J. et al. (2017). Unpaired Image-to-Image Translation using Cycle-Consistent Adversarial Networks.