```
from google.colab import drive
drive.mount('/content/drive')
```

```
Mounted at /content/drive
```

```
import tensorflow as tf
from tensorflow.keras import layers, models
import numpy as np
import matplotlib.pyplot as plt
import tensorflow as tf
from tensorflow.keras import layers, models
import numpy as np
import matplotlib.pyplot as plt
import os
from PIL import Image


# # Load MNIST dataset
# (train_images, _), (_, _) = tf.keras.datasets.mnist.load_data()
# train_images = train_images.reshape(train_images.shape[0], 28, 28, 1).astype('float32')
# train_images = (train_images - 127.5) / 127.5  # Normalize to [-1, 1]


# Path to the folder containing your images
images_folder = "/content/drive/MyDrive/glioma_tumor"

# Load images from the folder
def load_images_from_folder(folder):
    images = []
    for filename in os.listdir(folder):
        img = Image.open(os.path.join(folder,filename))
        if img is not None:
            images.append(img)
    return images

# Preprocess images
def preprocess_images(images):
    processed_images = []
    for img in images:
        # Resize image to 28x28 and convert to grayscale
        img = img.resize((28, 28)).convert('L')
        img_array = np.array(img)
        img_array = img_array.reshape((28, 28, 1))
        img_array = img_array.astype('float32')
        img_array = (img_array - 127.5) / 127.5  # Normalize to [-1, 1]
        processed_images.append(img_array)
    return np.array(processed_images)

# Load images from folder
images = load_images_from_folder(images_folder)

# Preprocess images
images = preprocess_images(images)
```

```
# Generator model
def build_generator():
    model = models.Sequential()
    model.add(layers.Dense(7 * 7 * 256, input_shape=(100,)))
    model.add(layers.Reshape((7, 7, 256)))
    model.add(layers.Conv2DTranspose(128, (5, 5), strides=(1, 1), padding='same'))
    model.add(layers.BatchNormalization())
    model.add(layers.LeakyReLU(alpha=0.2))
    model.add(layers.Conv2DTranspose(64, (5, 5), strides=(2, 2), padding='same'))
    model.add(layers.BatchNormalization())
    model.add(layers.LeakyReLU(alpha=0.2))
    model.add(layers.Conv2DTranspose(1, (5, 5), strides=(2, 2), padding='same', activation='tanh'))
    return model


# Discriminator model
def build_discriminator():
    model = models.Sequential()
    model.add(layers.Conv2D(64, (5, 5), strides=(2, 2), padding='same', input_shape=(28, 28, 1)))
    model.add(layers.LeakyReLU(alpha=0.2))
    model.add(layers.Dropout(0.3))
    model.add(layers.Conv2D(128, (5, 5), strides=(2, 2), padding='same'))
    model.add(layers.LeakyReLU(alpha=0.2))
    model.add(layers.Dropout(0.3))
    model.add(layers.Flatten())
    model.add(layers.Dense(1, activation='sigmoid'))
    return model


# Build and compile the discriminator
discriminator = build_discriminator()
discriminator.compile(loss='binary_crossentropy', optimizer=tf.keras.optimizers.Adam(learning_rate=0.0002, be


# Build the generator
generator = build_generator()

# Build and compile the combined model (generator and discriminator)
discriminator.trainable = False
gan_input = tf.keras.Input(shape=(100,))
x = generator(gan_input)
gan_output = discriminator(x)
gan = models.Model(gan_input, gan_output)
gan.compile(loss='binary_crossentropy', optimizer=tf.keras.optimizers.Adam(learning_rate=0.0002, beta_1=0.5))

# Training loop
epochs = 10000
batch_size = 64
```

```
    for epoch in range(epochs):
        # Train discriminator
        noise = np.random.normal(0, 1, size=(batch_size, 100))
        generated_images = generator.predict(noise)
        real_images = images[np.random.randint(0, images.shape[0], batch_size)]  # Use images loaded from folder
        labels_real = np.ones((batch_size, 1))
        labels_fake = np.zeros((batch_size, 1))

        d_loss_real = discriminator.train_on_batch(real_images, labels_real)
        d_loss_fake = discriminator.train_on_batch(generated_images, labels_fake)
        d_loss = 0.5 * np.add(d_loss_real, d_loss_fake)

        # Train generator
        noise = np.random.normal(0, 1, size=(batch_size, 100))
        labels_gan = np.ones((batch_size, 1))
        g_loss = gan.train_on_batch(noise, labels_gan)

        # Print progress
        if epoch % 100 == 0:
            print(f"Epoch {epoch}/{epochs} [D loss: {d_loss[0]} | D accuracy: {100 * d_loss[1]}] [G loss: {g_loss

            # Save generated images at specific intervals
            if epoch % 500 == 0:
                samples = generator.predict(np.random.normal(0, 1, size=(16, 100)))
                samples = (samples + 1) / 2.0  # Rescale to [0, 1]
                fig, axs = plt.subplots(4, 4)
                cnt = 0
                for i in range(4):
                    for j in range(4):
                        axs[i, j].imshow(samples[cnt, :, :, 0], cmap='gray')
                        axs[i, j].axis('off')
                        cnt += 1
                plt.show()
```

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Epoch 0/10000 [D loss: 0.6901606321334839 | D accuracy: 33.59375] [G loss: 0.6562200188
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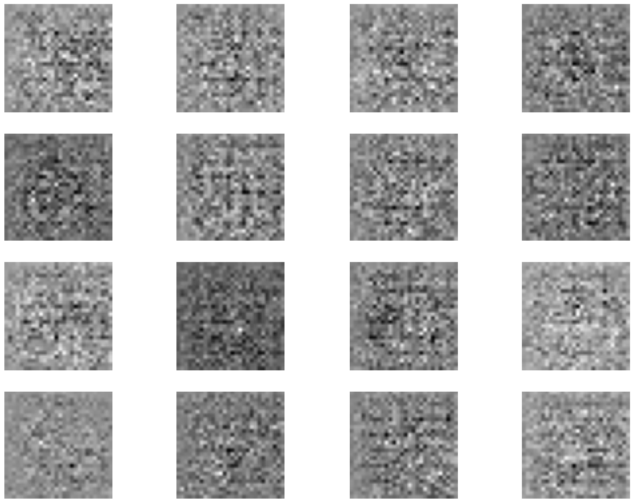

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Epoch 200/10000 [D loss: 0.0006442570884246379 | D accuracy: 100.0] [G loss: 1.766969035
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Epoch 300/10000 [D loss: 0.5747427940368652 | D accuracy: 75.0] [G loss: 2.8281078338623
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Epoch 400/10000 [D loss: 0.6566779613494873 | D accuracy: 60.15625] [G loss: 0.574911952
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Epoch 500/10000 [D loss: 0.7565619945526123 | D accuracy: 30.46875] [G loss: 0.638446331
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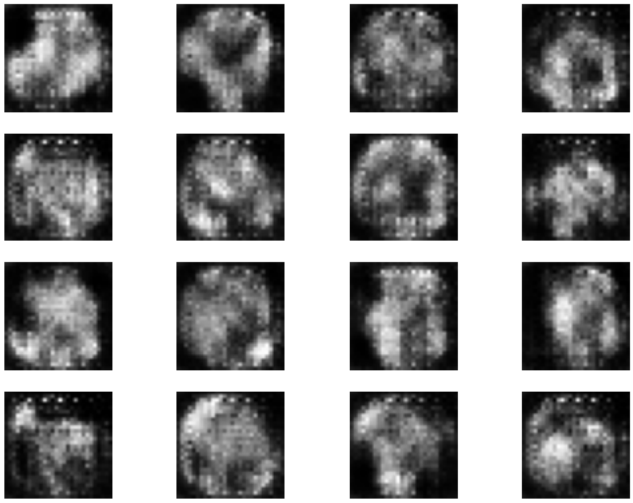

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Epoch 600/10000 [D loss: 0.748831033706665 | D accuracy: 25.0] [G loss: 0.67142379283905
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Epoch 700/10000 [D loss: 0.7069417834281921 | D accuracy: 38.28125] [G loss: 0.713418602
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Epoch 800/10000 [D loss: 0.7032021284103394 | D accuracy: 44.53125] [G loss: 0.712712645
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Epoch 900/10000 [D loss: 0.6983278691768646 | D accuracy: 47.65625] [G loss: 0.72466695
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Epoch 1000/10000 [D loss: 0.6846426129341125 | D accuracy: 53.90625] [G loss: 0.72701728
1/1 [==============================] - 0s 17ms/step
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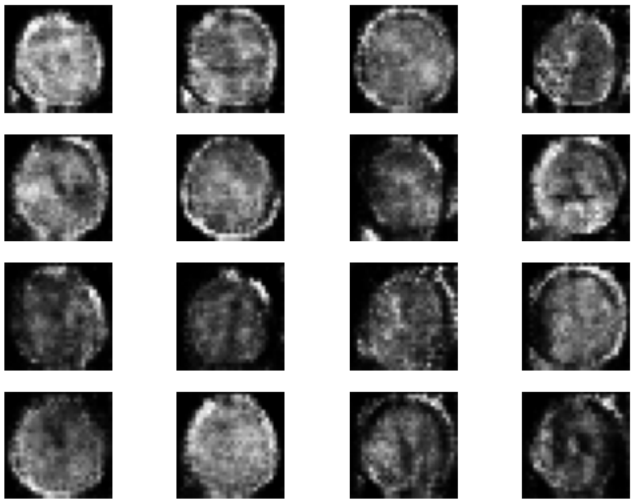

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Epoch 1100/10000 [D loss: 0.673014223575592 | D accuracy: 58.59375] [G loss: 0.721814393
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Epoch 1200/10000 [D loss: 0.6850899457931519 | D accuracy: 60.9375] [G loss: 0.729446589
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Epoch 1300/10000 [D loss: 0.6806632876396179 | D accuracy: 62.5] [G loss: 0.715969324111
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Epoch 1400/10000 [D loss: 0.6893925666809082 | D accuracy: 54.6875] [G loss: 0.719438552
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Epoch 1500/10000 [D loss: 0.6754721105098724 | D accuracy: 60.15625] [G loss: 0.72490972
1/1 [==============================] - 0s 18ms/step
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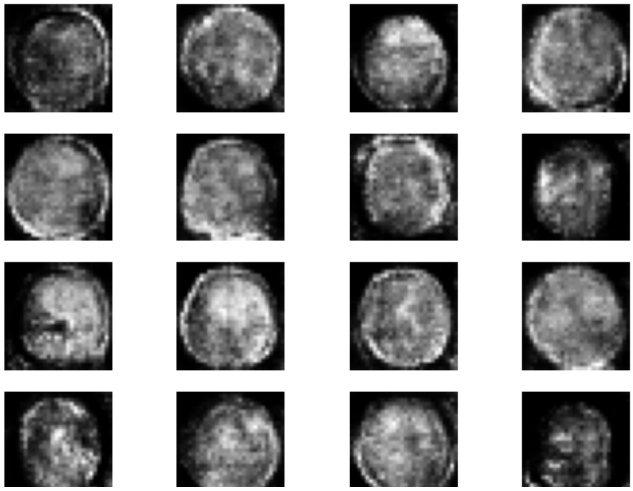

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Epoch 1600/10000 [D loss: 0.6835058331489563 | D accuracy: 56.25] [G loss: 0.7107654213
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Epoch 1700/10000 [D loss: 0.6749250888824463 | D accuracy: 66.40625] [G loss: 0.7117975З
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Epoch 1800/10000 [D loss: 0.6699724793434143 | D accuracy: 62.5] [G loss: 0.718183338642
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Epoch 1900/10000 [D loss: 0.6728114783763885 | D accuracy: 63.28125] [G loss: 0.71081387
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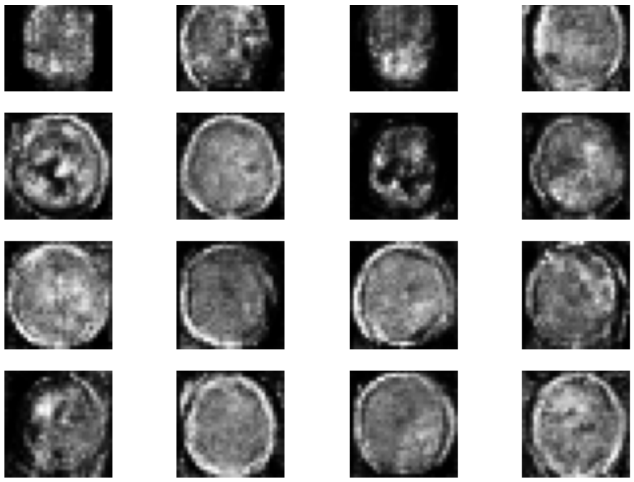
Epoch 2000/10000 [D loss: 0.6720178723335266 | D accuracy: 57.03125] [G loss: 0.73119831
1/1 [==============================] - 0s 27ms/step
```



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Epoch 2100/10000 [D loss: 0.664717435836792 | D accuracy: 67.1875] [G loss: 0.7334188222
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Epoch 2200/10000 [D loss: 0.6682146787643433 | D accuracy: 62.5] [G loss: 0.740095853805
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Epoch 2300/10000 [D loss: 0.67294642329216 | D accuracy: 61.71875] [G loss: 0.7478578090
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Epoch 2400/10000 [D loss: 0.6558224260807037 | D accuracy: 64.0625] [G loss: 0.726452356
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2/2 [==============================] - 0s 4ms/step
Epoch 2500/10000 [D loss: 0.6538751721382141 | D accuracy: 71.09375] [G loss: 0.76708841
1/1 [==============================] - 0s 17ms/step
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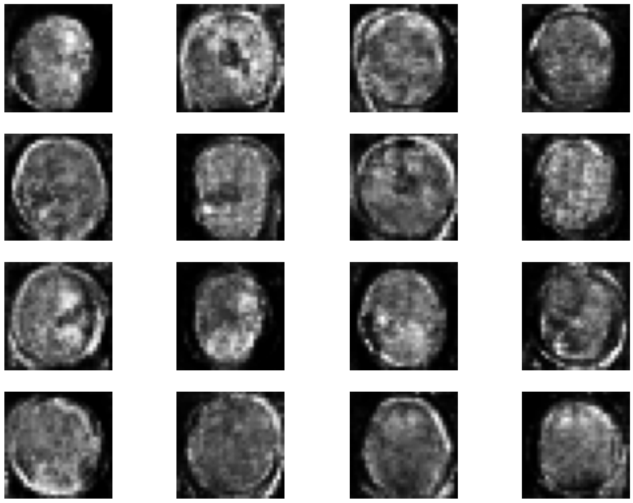

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Epoch 2600/10000 [D loss: 0.6541244685649872 | D accuracy: 64.84375] [G loss: 0.75433486
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Epoch 2700/10000 [D loss: 0.6518959701061249 | D accuracy: 66.40625] [G loss: 0.7851327
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Epoch 2800/10000 [D loss: 0.6350954473018646 | D accuracy: 69.53125] [G loss: 0.78756451
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Epoch 2900/10000 [D loss: 0.6232856214046478 | D accuracy: 76.5625] [G loss: 0.80391907
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Epoch 3000/10000 [D loss: 0.6281962394714355 | D accuracy: 67.96875] [G loss: 0.82421654
1/1 [==============================] - 0s 35ms/step
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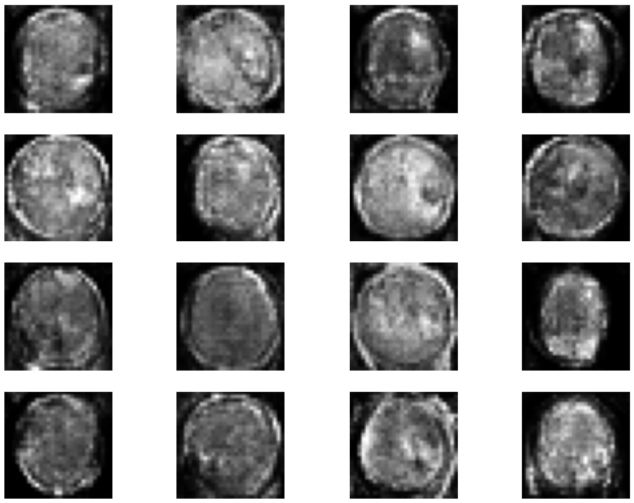

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Epoch 3100/10000 [D loss: 0.6081558465957642 | D accuracy: 75.0] [G loss: 0.839242219924
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Epoch 3200/10000 [D loss: 0.6055653691291809 | D accuracy: 73.4375] [G loss: 0.831240594
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Epoch 3300/10000 [D loss: 0.5639771223068237 | D accuracy: 79.6875] [G loss: 0.883887529
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Epoch 3400/10000 [D loss: 0.5737378299236298 | D accuracy: 74.21875] [G loss: 0.88131684
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Epoch 3500/10000 [D loss: 0.5531117916107178 | D accuracy: 78.90625] [G loss: 0.92698681
1/1 [==============================] - 0s 28ms/step
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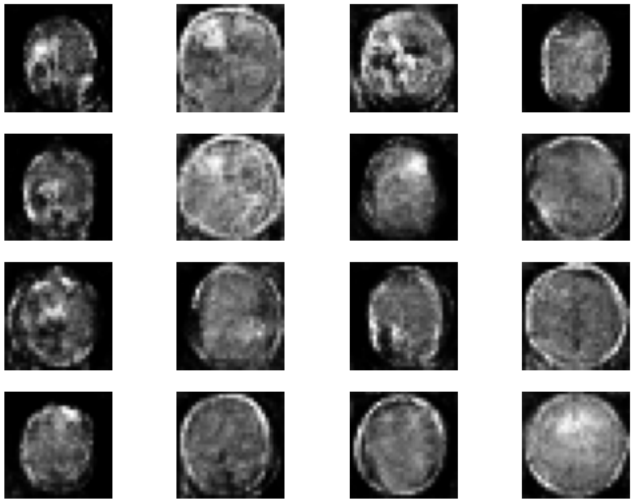

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Epoch 3600/10000 [D loss: 0.5788361132144928 | D accuracy: 77.34375] [G loss: 0.94183933
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Epoch 3700/10000 [D loss: 0.5079774856567383 | D accuracy: 87.5] [G loss: 0.989050149917
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Epoch 3800/10000 [D loss: 0.5636551678180695 | D accuracy: 71.875] [G loss: 1.0135319232
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Epoch 3900/10000 [D loss: 0.5118468999862671 | D accuracy: 84.375] [G loss: 1.0048377513
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Epoch 4000/10000 [D loss: 0.5195123255252838 | D accuracy: 79.6875] [G loss: 0.999182224
1/1 [==============================] - 0s 20ms/step
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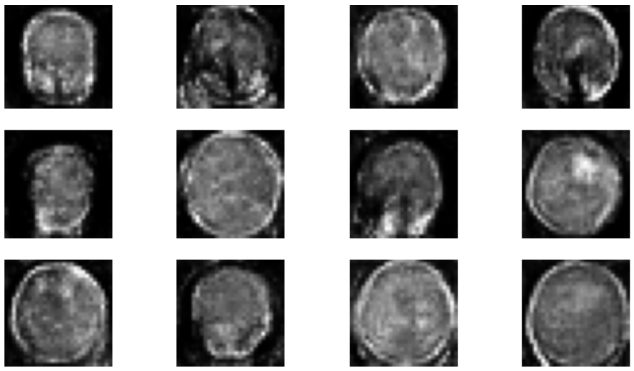

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Epoch 4100/10000 [D loss: 0.513679251074791 | D accuracy: 82.03125] [G loss: 1.033393144
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Epoch 4200/10000 [D loss: 0.5429697632789612 | D accuracy: 73.4375] [G loss: 1.085546731
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Epoch 4300/10000 [D loss: 0.47090692818164825 | D accuracy: 82.8125] [G loss: 1.14269018
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Epoch 4400/10000 [D loss: 0.4672802686691284 | D accuracy: 82.8125] [G loss: 1.114486694
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Epoch 4500/10000 [D loss: 0.4652802646160126 | D accuracy: 76.5625] [G loss: 1.259048938
1/1 [==============================] - 0s 33ms/step
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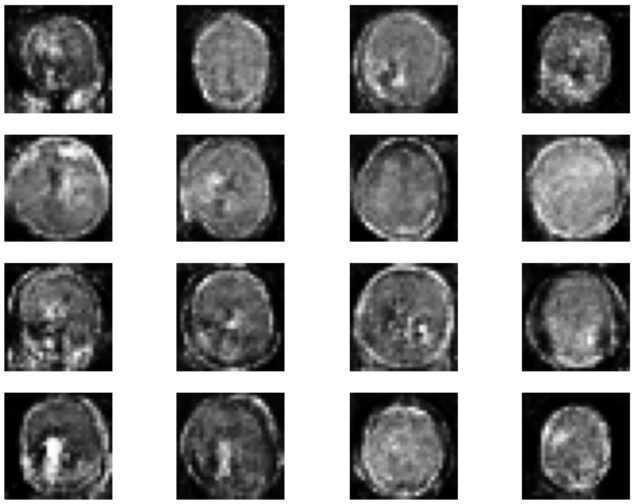

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Epoch 4600/10000 [D loss: 0.48483484983444214 | D accuracy: 78.90625] [G loss: 1.1292469
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Epoch 4700/10000 [D loss: 0.4672625809907913 | D accuracy: 81.25] [G loss: 1.27029657363
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Epoch 4800/10000 [D loss: 0.44893456995487213 | D accuracy: 81.25] [G loss: 1.217525720
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Epoch 4900/10000 [D loss: 0.4367572069168091 | D accuracy: 85.15625] [G loss: 1.3296765
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Epoch 5000/10000 [D loss: 0.4268532246351242 | D accuracy: 81.25] [G loss: 1.38585948944
1/1 [==============================] - 0s 18ms/step
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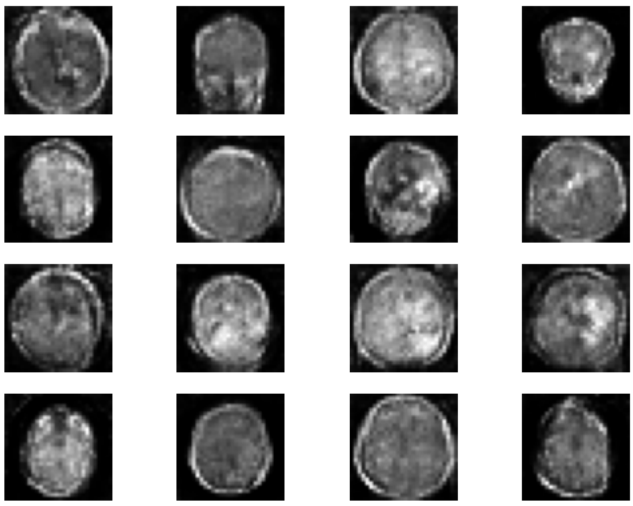

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Epoch 5100/10000 [D loss: 0.4199850261211395 | D accuracy: 77.34375] [G loss: 1.27309405
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Epoch 5300/10000 [D loss: 0.39243075251579285 | D accuracy: 89.0625] [G loss: 1.34443902
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Epoch 5400/10000 [D loss: 0.3603394627571106 | D accuracy: 84.375] [G loss: 1.3497650623
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Epoch 5500/10000 [D loss: 0.35272449254989624 | D accuracy: 88.28125] [G loss: 1.4012204
1/1 [==============================] - 0s 18ms/step
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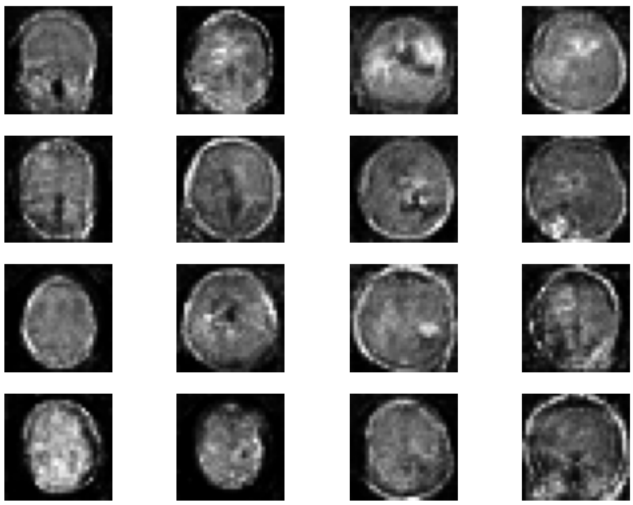

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Epoch 5600/10000 [D loss: 0.417239248752594 | D accuracy: 80.46875] [G loss: 1.453914284
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Epoch 5700/10000 [D loss: 0.35103005170822144 | D accuracy: 90.625] [G loss: 1.593935728
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Epoch 5900/10000 [D loss: 0.353109672665596 | D accuracy: 85.15625] [G loss: 1.596775054
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Epoch 6000/10000 [D loss: 0.30033358931541443 | D accuracy: 92.1875] [G loss: 1.75882434
1/1 [==============================] - 0s 19ms/step
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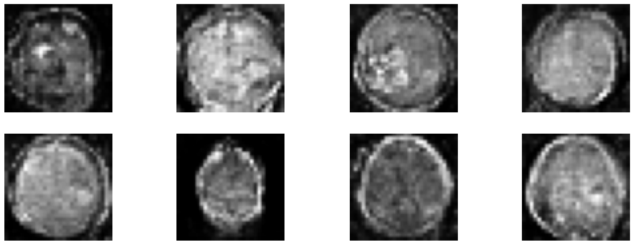

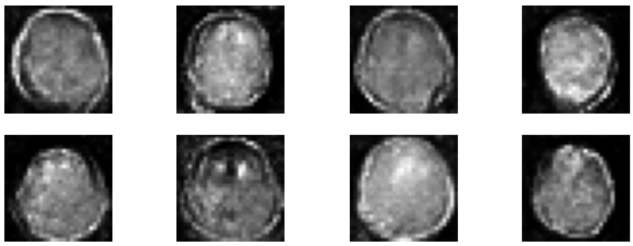

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Epoch 6100/10000 [D loss: 0.35387521982192993 | D accuracy: 89.0625] [G loss: 1.4886260
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Epoch 6200/10000 [D loss: 0.3644702434539795 | D accuracy: 85.15625] [G loss: 1.63458812
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Epoch 6300/10000 [D loss: 0.3498831242322922 | D accuracy: 83.59375] [G loss: 1.58507645
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Epoch 6400/10000 [D loss: 0.36245517432689667 | D accuracy: 87.5] [G loss: 1.56022834777
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Epoch 6500/10000 [D loss: 0.33658812940120697 | D accuracy: 89.0625] [G loss: 1.62133061
1/1 [==============================] - 0s 28ms/step
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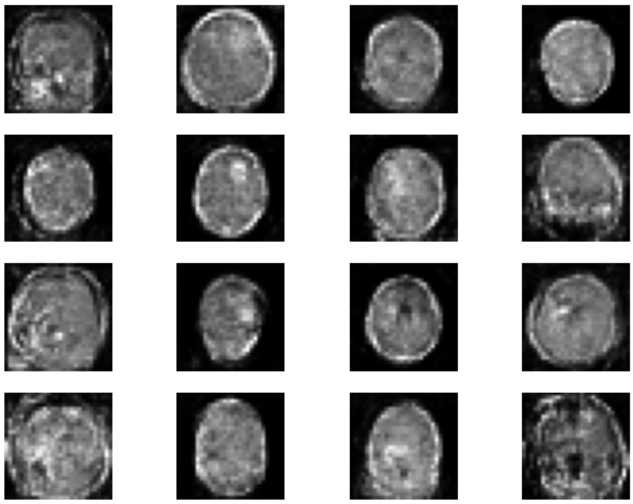

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Epoch 6600/10000 [D loss: 0.328778401017189 | D accuracy: 86.71875] [G loss: 1.956408619
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Epoch 6700/10000 [D loss: 0.3077414631843567 | D accuracy: 89.0625] [G loss: 1.865691661
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Epoch 6800/10000 [D loss: 0.34988462924957275 | D accuracy: 86.71875] [G loss: 1.8200746
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Epoch 6900/10000 [D loss: 0.27278129011392593 | D accuracy: 88.28125] [G loss: 1.958644
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Epoch 7000/10000 [D loss: 0.31684666872024536 | D accuracy: 85.9375] [G loss: 1.75773823
1/1 [==============================] - 0s 18ms/step
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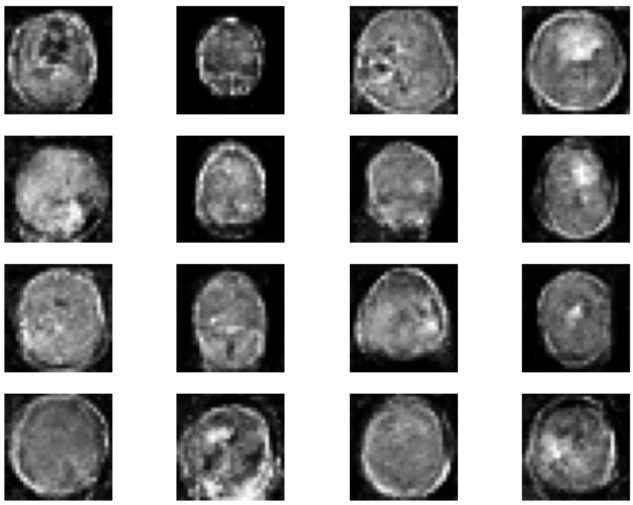

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Epoch 7100/10000 [D loss: 0.250040203332901 | D accuracy: 92.1875] [G loss: 2.1281871795
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Epoch 7200/10000 [D loss: 0.27675534784793854 | D accuracy: 91.40625] [G loss: 2.019431
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Epoch 7300/10000 [D loss: 0.23775382339954376 | D accuracy: 92.96875] [G loss: 1.7791721
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Epoch 7400/10000 [D loss: 0.23975449055433273 | D accuracy: 92.1875] [G loss: 2.06681704
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Epoch 7500/10000 [D loss: 0.24011631309986115 | D accuracy: 93.75] [G loss: 1.948648214
1/1 [==============================] - 0s 17ms/step
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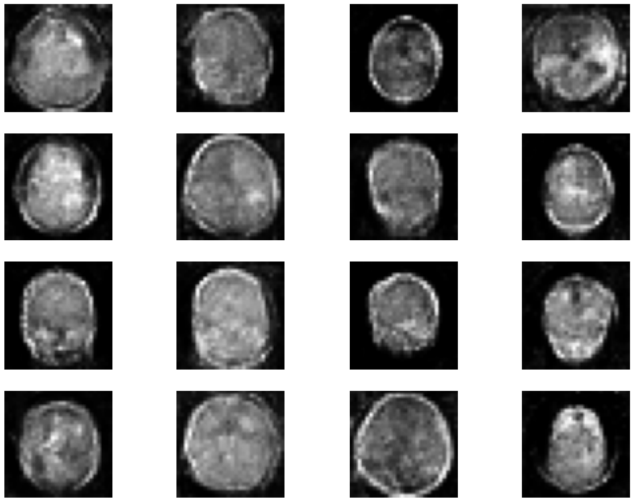

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Epoch 7600/10000 [D loss: 0.2469208538532257 | D accuracy: 92.96875] [G loss: 2.0332677
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Epoch 7700/10000 [D loss: 0.25630608946084976 | D accuracy: 92.1875] [G loss: 1.89704132
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Epoch 7800/10000 [D loss: 0.22531268000602722 | D accuracy: 93.75] [G loss: 2.0716893672
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Epoch 7900/10000 [D loss: 0.3611818104982376 | D accuracy: 86.71875] [G loss: 2.07739973
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Epoch 8000/10000 [D loss: 0.22661707550287247 | D accuracy: 90.625] [G loss: 2.157523155
1/1 [==============================] - 0s 23ms/step
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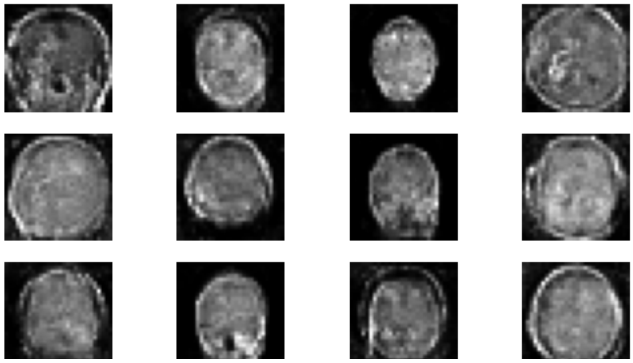

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Epoch 8100/10000 [D loss: 0.28645700216293335 | D accuracy: 89.84375] [G loss: 2.1278816
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Epoch 8200/10000 [D loss: 0.2659447491168976 | D accuracy: 89.0625] [G loss: 2.152184963
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Epoch 8300/10000 [D loss: 0.245294988155365 | D accuracy: 92.1875] [G loss: 2.1011033058
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Epoch 8400/10000 [D loss: 0.22964486479759216 | D accuracy: 90.625] [G loss: 2.225928306
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Epoch 8500/10000 [D loss: 0.18627259135246277 | D accuracy: 95.3125] [G loss: 2.51632094
1/1 [==============================] - 0s 19ms/step
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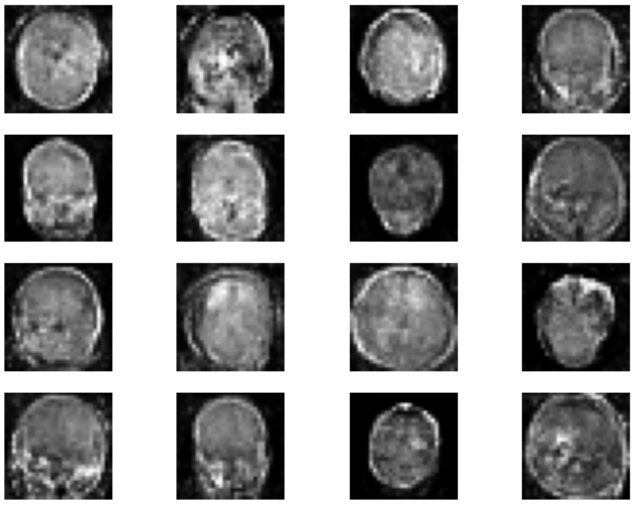

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Epoch 8600/10000 [D loss: 0.22339697182178497 | D accuracy: 92.96875] [G loss: 2.2444944
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Epoch 8700/10000 [D loss: 0.33737123012542725 | D accuracy: 84.375] [G loss: 2.168693786
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Epoch 8800/10000 [D loss: 0.2148868590593338 | D accuracy: 96.09375] [G loss: 2.40353441
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Epoch 8900/10000 [D loss: 0.2094547227025032 | D accuracy: 92.96875] [G loss: 2.3264535
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Epoch 9000/10000 [D loss: 0.2208108752965927 | D accuracy: 92.1875] [G loss: 2.243129491
1/1 [==============================] - 0s 17ms/step
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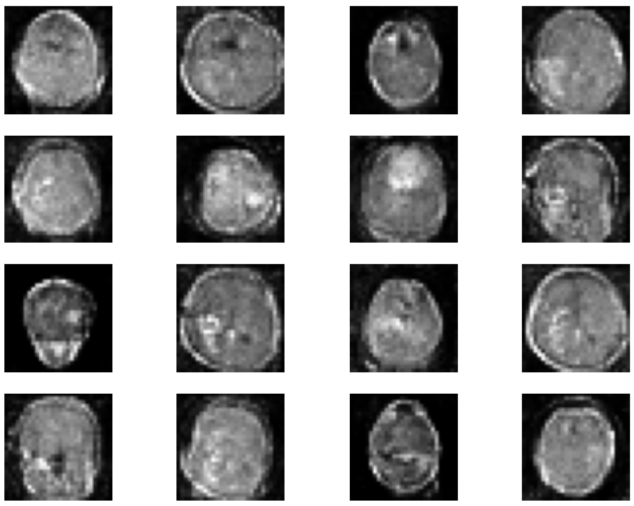

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Epoch 9100/10000 [D loss: 0.1927068829536438 | D accuracy: 91.40625] [G loss: 2.3988094
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Epoch 9200/10000 [D loss: 0.3271699994802475 | D accuracy: 86.71875] [G loss: 2.24313712
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Epoch 9300/10000 [D loss: 0.1690262258052826 | D accuracy: 94.53125] [G loss: 2.50586891
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Epoch 9400/10000 [D loss: 0.2284260392189026 | D accuracy: 91.40625] [G loss: 2.5933322
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Epoch 9500/10000 [D loss: 0.21248763799667358 | D accuracy: 93.75] [G loss: 2.347680568
1/1 [==============================] - 0s 20ms/step
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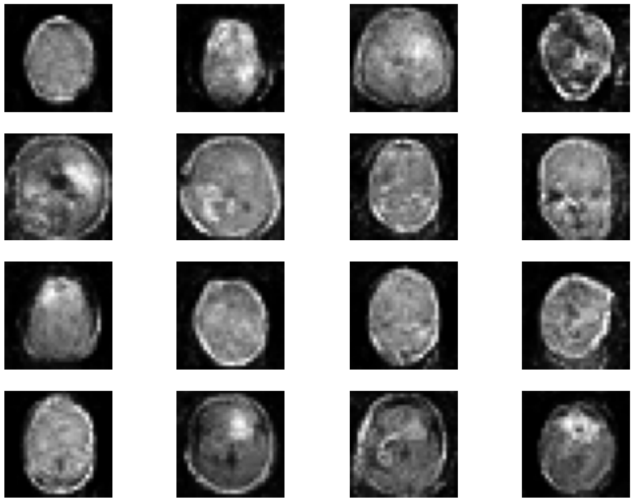

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Epoch 9600/10000 [D loss: 0.16267922520637512 | D accuracy: 92.96875] [G loss: 2.7367835
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Epoch 9700/10000 [D loss: 0.23761005699634552 | D accuracy: 89.0625] [G loss: 2.3129279
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Epoch 9800/10000 [D loss: 0.1941637471318245 | D accuracy: 92.96875] [G loss: 2.5025410
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Epoch 9900/10000 [D loss: 0.2372918277978897 | D accuracy: 91.40625] [G loss: 2.64681220
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```
import tensorflow as tf
from tensorflow.keras import layers, models

# Define the CNN model
def create_cnn_model(input_shape, num_classes):
    model = models.Sequential()

    # Add convolutional layers
    model.add(layers.Conv2D(32, (3, 3), activation='relu', input_shape=input_shape))
```