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Code:
import torch
import torchvision.transforms as transforms
from torchvision.utils import save image
from torch.utils.data import DataLoader
from torchvision.datasets import CelebA
from torch.autograd import Variable
import numpy as np
import os
import imageio
# Mount Google Drive to access files
from google.colab import drive
drive.mount('/content/drive')
# Device configuration
device = torch.device('cuda' if torch.cuda.is_available() else 'cpu')
# Hyperparameters
latent size = 100
batch size = 64
num_epochs = 10
sample_dir = '/content/drive/My Drive/generated_images'
video file = '/content/drive/My Drive/generated video.mp4'
# Create directories if not exists
if not os.path.exists(sample dir):
  os.makedirs(sample dir)
# CelebA dataset
transform = transforms.Compose([
  transforms.Resize((64, 64)),
  transforms.ToTensor(),
  transforms.Normalize((0.5, 0.5, 0.5), (0.5, 0.5, 0.5))
])
celeba_dataset = CelebA(root='/content/data/',
               split='all',
               transform=transform,
               download=True)
# Data loader
data loader = DataLoader(dataset=celeba dataset,
               batch_size=batch_size,
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shuffle=True)
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# Generator model
class Generator(torch.nn.Module):
  def __init__(self):
     super(Generator, self). init ()
     self.main = torch.nn.Sequential(
       torch.nn.ConvTranspose2d(latent_size, 512, 4, 1, 0, bias=False),
       torch.nn.BatchNorm2d(512),
       torch.nn.ReLU(True),
       torch.nn.ConvTranspose2d(512, 256, 4, 2, 1, bias=False),
       torch.nn.BatchNorm2d(256),
       torch.nn.ReLU(True),
       torch.nn.ConvTranspose2d(256, 128, 4, 2, 1, bias=False),
       torch.nn.BatchNorm2d(128),
       torch.nn.ReLU(True),
       torch.nn.ConvTranspose2d(128, 64, 4, 2, 1, bias=False),
       torch.nn.BatchNorm2d(64),
       torch.nn.ReLU(True),
       torch.nn.ConvTranspose2d(64, 3, 4, 2, 1, bias=False),
       torch.nn.Tanh()
     )
  def forward(self, x):
     return self.main(x)
# Create generator
generator = Generator().to(device)
# Load pretrained model
generator.load state dict(torch.load('/content/drive/My Drive/generator.pth',
map location=torch.device(device)))
generator.eval()
# Generate video frames
images = []
with torch.no_grad():
  for i in range(100): # Generate 100 frames
     noise = Variable(torch.randn(batch_size, latent_size, 1, 1)).to(device)
     fake images = generator(noise)
     images.append(fake images)
# Combine images into video
with imageio.get_writer(video_file, mode='I') as writer:
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for image in images:
    for img in image:
        img = img.cpu().numpy()
        img = np.transpose(img, (1, 2, 0))
        img = ((img + 1) * 255 / 2).astype(np.uint8)
        writer.append_data(img)
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print("Video generation completed!")

Output:

