hw-gan

May 30, 2023

. Generative adversarial networks

GAN ,

[1]:

```
import os
from torch.utils.data import DataLoader
from torchvision.datasets import ImageFolder
import torchvision.transforms as tt
import torch
import torch.nn as nn
import cv2
from tqdm.notebook import tqdm
from torchvision.utils import save_image
from torchvision.utils import make_grid
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline

sns.set(style='darkgrid', font_scale=1.2)
```

0.1 1. (1)

Flickr Faces, (1024 1024). , .

. , DataLoader , (1024 , 128)

Google Drive. data loader .

[2]:

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

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Mounted at /content/drive
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[3]:

```
sample_dir = 'data_gan'
os.makedirs(sample_dir, exist_ok=True)
```

[4]:

```
!unzip "/content/drive/MyDrive/Colab Notebooks/GUN/archive.zip" -d '/content/
 ↪data_gan/'
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Archive:  /content/drive/MyDrive/Colab Notebooks/GUN/archive.zip
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```

, data loader.
DataLoader

```
[5]: def get_dataloader(image_size, batch_size):
       """
       Builds dataloader for training data.
       Use tt.Compose and tt.Resize for transformations
       :param image_size: height and wdith of the image
       :param batch_size: batch_size of the dataloader
       :returns: DataLoader object
       """
       # TODO: resize images, convert them to tensors and build dataloader

       INP_DIR = '/content/data_gan'

       transform_img = tt.Compose([
      tt.Resize(image_size),
      tt.CenterCrop(image_size),
      tt.ToTensor(),
      tt.Normalize((0.5, 0.5, 0.5), (0.5, 0.5, 0.5))])

  data_set = ImageFolder(root=INP_DIR, transform=transform_img)

  data_loader = DataLoader(data_set, batch_size, shuffle=True, num_workers=2)

  return data_loader
```

[6]:

```
#TODO: build dataloader and transfer it to device
image_size = 128
batch_size = 32

train_dl = get_dataloader(image_size, batch_size)
```

. (32 .)

[7]:

```
def denorm(img_tensors):
    return img_tensors * 0.5 + 0.5

def show_images(images, nmax=64):
    fig, ax = plt.subplots(figsize=(13, 13))
    ax.set_xticks([]); ax.set_yticks([])
    ax.imshow(make_grid(denorm(images.detach()[:nmax]), nrow=8).permute(1, 2, 0))

def show_batch(dl, nmax=64):
    for images, _ in dl:
        show_images(images, nmax)
        break
```

[8]:

```
show_batch(train_dl)
```

0.2 2. (2)

. , : * (3 x image_size x image_size) , (1)

- latent_size x 1 x 1 3 x image_size x image_size

[9]:
```
device = torch.device('cuda' if torch.cuda.is_available() else 'cpu')
print(f"Device: {device}.")
```

```
Device: cuda.
```

: Conv2d, LeakyReLU, BatchNorm2d, ConvTranspose2d, ReLU. .

= 100

[10]:
```
discriminator = nn.Sequential(

    # in: 3 x 128 x 128
    nn.Conv2d(3, 64, kernel_size=4, stride=2, padding=1, bias=False),
    nn.LeakyReLU(0.2, inplace=True),
    # out: 64 x 64 x 64

    nn.Conv2d(64, 128, kernel_size=4, stride=2, padding=1, bias=False),
    nn.BatchNorm2d(128),
    nn.LeakyReLU(0.2, inplace=True),
    # out: 128 x 32 x 32

    nn.Conv2d(128, 256, kernel_size=4, stride=2, padding=1, bias=False),
    nn.BatchNorm2d(256),
    nn.LeakyReLU(0.2, inplace=True),
    # out: 256 x 16 x 16

    nn.Conv2d(256, 512, kernel_size=4, stride=2, padding=1, bias=False),
    nn.BatchNorm2d(512),
    nn.LeakyReLU(0.2, inplace=True),
    # out: 512 x 8 x 8

    nn.Conv2d(512, 1024, kernel_size=4, stride=2, padding=1, bias=False),
    nn.BatchNorm2d(1024),
    nn.LeakyReLU(0.2, inplace=True),
    # out: 1024 x 4 x 4

    nn.Conv2d(1024, 1, kernel_size=4, stride=1, padding=0, bias=False),
    # out: 1 x 1 x 1

    nn.Sigmoid()
)
```

[11]:

```
latent_size = 100 # choose latent size

generator = nn.Sequential(
    # in: 128 x 1 x 1

    nn.ConvTranspose2d(latent_size, 1024, kernel_size=4, stride=1, padding=0,␣
 ↪bias=False),
    nn.BatchNorm2d(1024),
    nn.ReLU(True),
    # out: 1024 x 4 x 4

    nn.ConvTranspose2d(1024, 512, kernel_size=4, stride=2, padding=1,␣
 ↪bias=False),
    nn.BatchNorm2d(512),
    nn.ReLU(True),
    # out: 512 x 8 x 8

    nn.ConvTranspose2d(512, 256, kernel_size=4, stride=2, padding=1,␣
 ↪bias=False),
    nn.BatchNorm2d(256),
    nn.ReLU(True),
    # out: 256 x 16 x 16

    nn.ConvTranspose2d(256, 128, kernel_size=4, stride=2, padding=1,␣
 ↪bias=False),
    nn.BatchNorm2d(128),
    nn.ReLU(True),
    # out: 128 x 32 x 32

    nn.ConvTranspose2d(128, 64, kernel_size=4, stride=2, padding=1, bias=False),
    nn.BatchNorm2d(64),
    nn.ReLU(True),
    # out: 64 x 64 x 64

    nn.ConvTranspose2d(64, 3, kernel_size=4, stride=2, padding=1, bias=False),
    # out: 3 x 128 x 128

    nn.Tanh()
)
```

GAN . : 1. : *
1 * 0 *

2. :

- 0
- ,

-

, . Adam,
BCELoss.

Learning rate 0.0002.

[12]:
```
lr = 2e-4

gunD = discriminator.to(device)
gunG = generator.to(device)

criterion = nn.BCELoss()

optimizerD = torch.optim.Adam(discriminator.parameters(),
                              lr=lr, betas=(0.5, 0.999))
optimizerG = torch.optim.Adam(generator.parameters(),
                              lr=lr, betas=(0.5, 0.999))
```

.

[13]:
```
def fit(mod_discriminator, mod_generator, opt_discriminator, opt_generator, criterion, epochs, lr):
  # Losses & scores
  losses_g = []
  losses_d = []
  real_scores = []
  fake_scores = []
```

```python
for epoch in range(epochs):
    loss_d_per_epoch = []
    loss_g_per_epoch = []
    real_score_per_epoch = []
    fake_score_per_epoch = []

    for real_images, _ in tqdm(train_dl):
        # Train discriminator
        mod_discriminator.zero_grad()

        real_images = real_images.to(device)
        batch_s = real_images.size(0)

        label = torch.full((batch_s, ), 1, dtype=torch.float, device=device)
        real_preds = mod_discriminator(real_images).view(-1)
        real_loss = criterion(real_preds, label)
        cur_real_score = torch.mean(real_preds).item()
        real_loss.backward()

        # Generate fake images
        latent = torch.randn(batch_s, latent_size, 1, 1, device=device)
        fake_images = mod_generator(latent)

        # Pass fake images through discriminator
        label.fill_(0)
        fake_preds = mod_discriminator(fake_images.detach()).view(-1)
        fake_loss = criterion(fake_preds, label)
        fake_loss.backward()
        cur_fake_score = torch.mean(fake_preds).item()

        real_score_per_epoch.append(cur_real_score)
        fake_score_per_epoch.append(cur_fake_score)

        # Update discriminator weights
        loss_d = real_loss + fake_loss
        opt_discriminator.step()
        loss_d_per_epoch.append(loss_d.item())

        # Train generator
        mod_generator.zero_grad()
        label.fill_(1)

        # Try to fool the discriminator
        preds = mod_discriminator(fake_images).view(-1)
        loss_g = criterion(preds, label)
        loss_g.backward()
```

```
          # Update generator weights
          loss_g_per_epoch.append(loss_g.item())
          opt_generator.step()

      # Record losses & scores
      losses_g.append(np.mean(loss_g_per_epoch))
      losses_d.append(np.mean(loss_d_per_epoch))
      real_scores.append(np.mean(real_score_per_epoch))
      fake_scores.append(np.mean(fake_score_per_epoch))

      with torch.no_grad():
        z = torch.randn(batch_size, latent_size, 1, 1, device=device)
        fake_images = mod_generator(z)
        save_image(denorm(fake_images).view(fake_images.size(0), 3, 128, 128),␣
↪f"generated_images_{epoch+1}.png")

      # Log losses & scores (last batch)
      print("Epoch [{}/{}], loss_g: {:.4f}, loss_d: {:.4f}, real_score: {:.4f},␣
↪fake_score: {:.4f}".format(
          epoch+1, epochs,
          losses_g[-1], losses_d[-1], real_scores[-1], fake_scores[-1]))

  return losses_g, losses_d, real_scores, fake_scores, mod_discriminator,␣
↪mod_generator
```

. 6 : 50,70,80,90,100 110.

. colab .

[14]:

```
checkpoint = torch.load('/content/drive/MyDrive/models_110.pth')
gunD.load_state_dict(checkpoint['discriminator'])
gunG.load_state_dict(checkpoint['generator'])
```

[14]:

```
<All keys matched successfully>
```

[15]:

```
data = torch.load('/content/drive/MyDrive/data_110.pth')
losses_g_110 = data['losses_g']
losses_d_110 = data['losses_d']
real_scores_110 = data['real_scores']
fake_scores_110 = data['fake_scores']
```

!

[ ]:

```
losses_g, losses_d, real_scores, fake_scores, trained_discriminator,␣
↪trained_generator = fit(gunD, gunG, optimizerD, optimizerG, criterion, 10,␣
↪lr)
```

```
  0%|          | 0/99 [00:00<?, ?it/s]
```

```
Epoch [1/10], loss_g: 7.6455, loss_d: 0.1348, real_score: 0.9540, fake_score:
0.0431

  0%|          | 0/99 [00:00<?, ?it/s]

Epoch [2/10], loss_g: 7.4841, loss_d: 0.2255, real_score: 0.9549, fake_score:
0.0524

  0%|          | 0/99 [00:00<?, ?it/s]

Epoch [3/10], loss_g: 7.5663, loss_d: 0.0714, real_score: 0.9729, fake_score:
0.0259

  0%|          | 0/99 [00:00<?, ?it/s]

Epoch [4/10], loss_g: 9.7180, loss_d: 0.1539, real_score: 0.9578, fake_score:
0.0406

  0%|          | 0/99 [00:00<?, ?it/s]

Epoch [5/10], loss_g: 8.6273, loss_d: 0.2062, real_score: 0.9475, fake_score:
0.0532

  0%|          | 0/99 [00:00<?, ?it/s]

Epoch [6/10], loss_g: 8.4781, loss_d: 0.1055, real_score: 0.9649, fake_score:
0.0347

  0%|          | 0/99 [00:00<?, ?it/s]

Epoch [7/10], loss_g: 7.6398, loss_d: 0.0533, real_score: 0.9778, fake_score:
0.0217

  0%|          | 0/99 [00:00<?, ?it/s]

Epoch [8/10], loss_g: 9.1176, loss_d: 0.0818, real_score: 0.9727, fake_score:
0.0271

  0%|          | 0/99 [00:00<?, ?it/s]

Epoch [9/10], loss_g: 10.1473, loss_d: 0.3046, real_score: 0.9362, fake_score:
0.0638

  0%|          | 0/99 [00:00<?, ?it/s]

Epoch [10/10], loss_g: 9.1865, loss_d: 0.0982, real_score: 0.9663, fake_score:
0.0344
```

p.s.: 110 .

[ ]:
```
gunD = trained_discriminator
gunG = trained_generator
```

[16]:
```
trained_discriminator = gunD
trained_generator = gunG
```

[ ]:

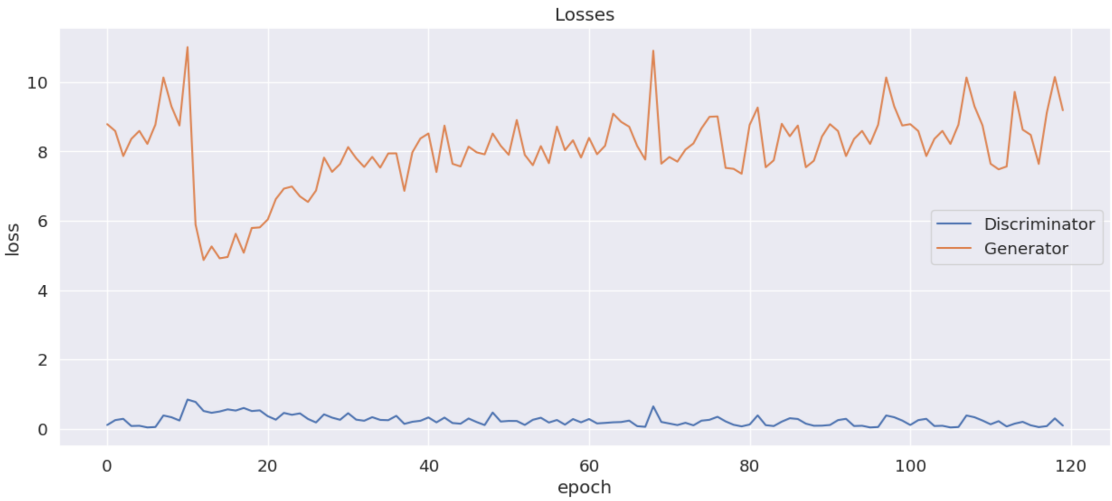
```
losses_g_110 = losses_g_110 + losses_g
losses_d_110 = losses_d_110 + losses_d
real_scores_110 = real_scores_110 + real_scores
fake_scores_110 = fake_scores_110 + fake_scores
```

.

. ?

[ ]:

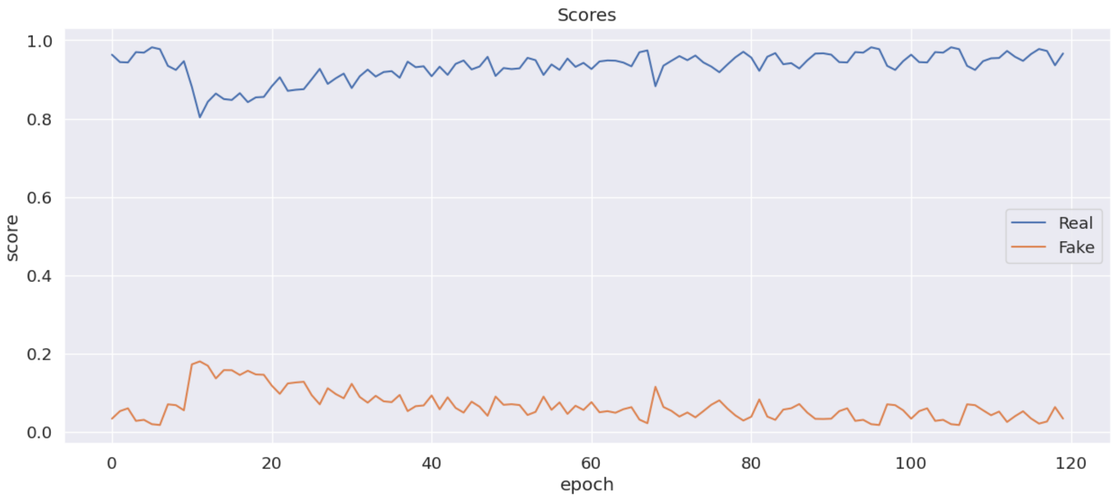
```
plt.figure(figsize=(15, 6))
plt.plot(losses_d_110, '-')
plt.plot(losses_g_110, '-')
plt.xlabel('epoch')
plt.ylabel('loss')
plt.legend(['Discriminator', 'Generator'])
plt.title('Losses');
```



[ ]:

```
plt.figure(figsize=(15, 6))

plt.plot(real_scores_110, '-')
plt.plot(fake_scores_110, '-')
plt.xlabel('epoch')
plt.ylabel('score')
plt.legend(['Real', 'Fake'])
plt.title('Scores');
```



- . 1-
0- , 1- . loss , -
, . . ,
.

0.3 3. (1)

. , ,
.

```
[ ]: n_images = 4

     fixed_latent = torch.randn(n_images, latent_size, 1, 1, device=device)
     fake_images = gunG(fixed_latent)
```

```
[ ]: def show_images(generated):
       # TODO: show generated images
       fig, axes = plt.subplots(nrows=1, ncols=generated.shape[0], figsize=(10, 5))
       for i, ax in enumerate(axes):
         img = np.transpose(generated[i].detach().cpu().numpy(), (1, 2, 0))
         img = (img + 1) / 2  #          [-1, 1]   [0, 1]
         ax.imshow(img)
         ax.axis('off')
       plt.show()
```

```
[ ]: print(fake_images.shape)
```

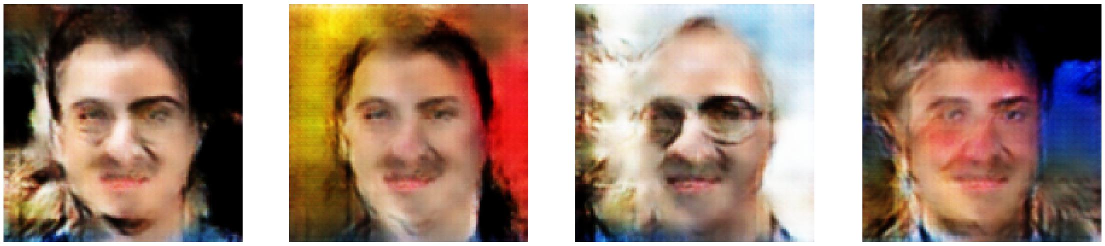
```
torch.Size([4, 3, 128, 128])
```

, 70, 110.

70 :

[ ]:

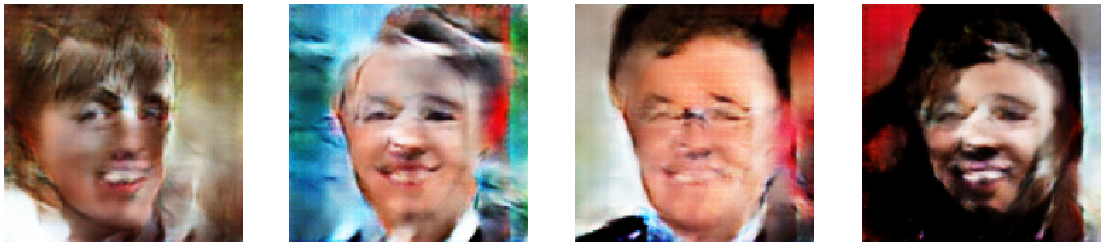
```
show_images(fake_images.to('cpu'))
```



80 :

[ ]:

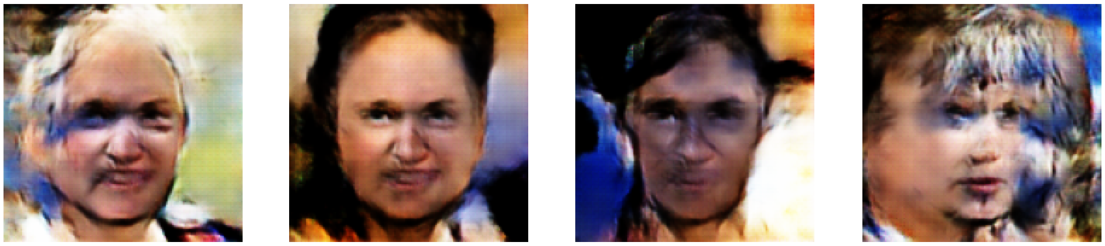
```
show_images(fake_images.to('cpu'))
```



90 :

[ ]:

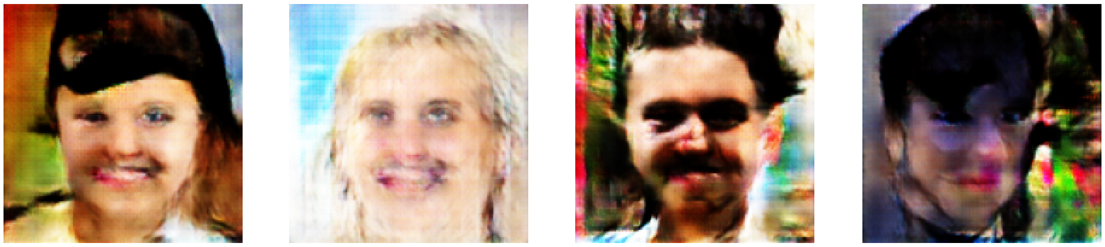
```
show_images(fake_images.to('cpu'))
```



100 :

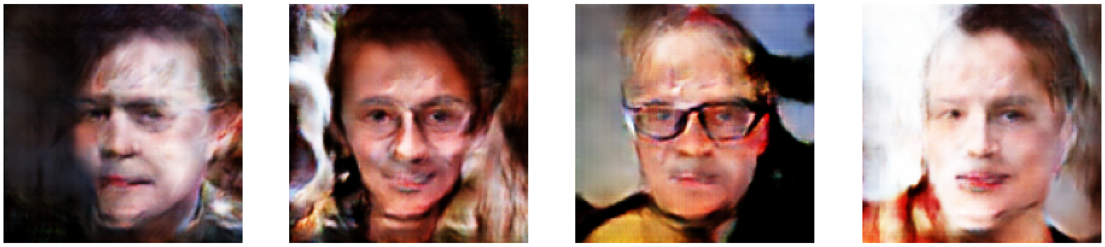
[ ]:

```
show_images(fake_images.to('cpu'))
```



110 :

```
[ ]: show_images(fake_images.to('cpu'))
```



, .
, . , , .
.

```
[ ]: torch.save({
         'discriminator': trained_discriminator.state_dict(),
         'generator': trained_generator.state_dict(),
     }, 'models_110.pth')
```

```
[ ]: torch.save({

         'losses_g':  losses_g + losses_g_110,
         'losses_d':  losses_d + losses_d_110,
         'real_scores': real_scores + real_scores_110,
         'fake_scores': fake_scores + fake_scores_110,
     }, 'data_110.pth')
```

?

, -
. , - .

0.4 4. Leave-one-out-1-NN classifier accuracy (6)

0.4.1 4.1. accuracy (4)

.

: * , . 0, – 1. * leave-one-out : 1NN Classifier (`sklearn.neighbors.KNeighborsClassifier(n_neighbors=1)`) , , (accuracy) . `sklearn.model_selection.LeaveOneOut`

.

[ ]:
```
!zip -r '/content/trained_pictures_110.zip' '/content/trained_pictures/'
```

```
  adding: content/trained_pictures/ (stored 0%)
  adding: content/trained_pictures/generated_images_6.png (deflated 0%)
  adding: content/trained_pictures/generated_images_5.png (deflated 0%)
  adding: content/trained_pictures/generated_images_2.png (deflated 0%)
  adding: content/trained_pictures/generated_images_7.png (deflated 0%)
  adding: content/trained_pictures/generated_images_3.png (deflated 0%)
  adding: content/trained_pictures/generated_images_10.png (deflated 0%)
  adding: content/trained_pictures/generated_images_8.png (deflated 0%)
  adding: content/trained_pictures/.ipynb_checkpoints/ (stored 0%)
  adding: content/trained_pictures/generated_images_4.png (deflated 0%)
  adding: content/trained_pictures/generated_images_1.png (deflated 0%)
  adding: content/trained_pictures/generated_images_9.png (deflated 0%)
```

git- .

accuracy .

[17]:
```
from sklearn.model_selection import LeaveOneOut
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import accuracy_score
```

[18]:
```
n_images = 1600

fixed_latent = torch.randn(n_images, latent_size, 1, 1, device=device)
fake_images = trained_generator(fixed_latent)
```

[19]:
```
reshaped_fake = fake_images.reshape(fake_images.shape[0], -1)

real_images = [i[0] for i in tqdm(train_dl)][:int(n_images/batch_size)]
```

```
100%|      | 99/99 [02:06<00:00,  1.27s/it]
```

[20]:
```
reshaped_real = torch.stack(real_images).reshape(fake_images.shape[0], -1)
```

[21]:
```
assert reshaped_real.shape == reshaped_fake.shape
```

[25]:

```
fake_labels = np.zeros(n_images)
real_labels = np.ones(n_images)
labels = np.concatenate([fake_labels, real_labels])

features = torch.concat([reshaped_fake.cpu(), reshaped_real.cpu()]).detach().
 ↪numpy()

loo = LeaveOneOut()
knn = KNeighborsClassifier(n_neighbors=1)
```

[26]:

```
%%time
#                            leave-one-out
accuracies = []
for train_index, test_index in loo.split(features):
    print("\tTRAIN:", train_index, "TEST:", test_index)
    X_train, X_test = features[train_index], features[test_index]
    y_train, y_test = labels[train_index], labels[test_index]
    knn.fit(X_train, y_train)
    y_pred = knn.predict(X_test)
    accuracies.append(accuracy_score(y_test, y_pred))
```

```
        TRAIN: [   1    2    3 … 3197 3198 3199] TEST: [0]
        TRAIN: [   0    2    3 … 3197 3198 3199] TEST: [1]
        TRAIN: [   0    1    3 … 3197 3198 3199] TEST: [2]
        TRAIN: [   0    1    2 … 3197 3198 3199] TEST: [3]
        TRAIN: [   0    1    2 … 3197 3198 3199] TEST: [4]
        TRAIN: [   0    1    2 … 3197 3198 3199] TEST: [5]
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        TRAIN: [   0    1    2 ... 3197 3198 3199] TEST: [3194]
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        TRAIN: [   0    1    2 ... 3196 3197 3198] TEST: [3199]
CPU times: user 41min 12s, sys: 24min 4s, total: 1h 5min 17s
Wall time: 52min 56s
```

```
[27]: mean_accuracy = np.mean(accuracies)
      print("Accuracy:", mean_accuracy)
```

```
Accuracy: 0.8690625
```

? accuracy ?

. (1181 1600)

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0.4.2 4.2. (2)

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, TSNE) ,

```
[ ]: from sklearn.manifold import TSNE
     import plotly.express as px
```

```
[ ]: tsne = TSNE(n_components=2)
     tsne_results = tsne.fit_transform(X)
```

, 70 , .

110 :

```
[ ]: fig = px.scatter(tsne_results, x=0, y=1, color=y.astype(str),labels={'0':␣
       ↪'tsne-2d-one', '1': 'tsne-2d-two'})
     fig.show()
```

100 :

```
[ ]: fig = px.scatter(tsne_results, x=0, y=1, color=y.astype(str),labels={'0':␣
       ↪'tsne-2d-one', '1': 'tsne-2d-two'})
     fig.show()
```

90 :

```
[ ]: fig = px.scatter(tsne_results, x=0, y=1, color=y.astype(str),labels={'0':␣
       ↪'tsne-2d-one', '1': 'tsne-2d-two'})
     fig.show()
```

80 :

```
[ ]: fig = px.scatter(tsne_results, x=0, y=1, color=y.astype(str),labels={'0': 'tsne-2d-one', '1': 'tsne-2d-two'})
     fig.show()
```

70 :

```
[ ]: fig = px.scatter(tsne_results, x=0, y=1, color=y.astype(str),labels={'0': 'tsne-2d-one', '1': 'tsne-2d-two'})
     fig.show()
```

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GUN, accuracy
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accuracy ,
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90 80 .

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110 100 . ,
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git- , loss, . .
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p.s.: , gun gan .
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