

```
In [1]: import tensorflow as tf
import numpy
#imports the TensorFlow library in Python using the alias tf, which is a popular open-source machine learning f
#developed by Google for building and training machine learning models.
#numpy is another popular Python library used for numerical computing, particularly for handling arrays and mat
#operations on them.
```

```
In [3]: !pip install matplotlib
#This command will download and install the matplotlib library and its dependencies from the Python Package Ind
#repository.
```

```
Requirement already satisfied: matplotlib in c:\users\student\miniconda3\envs\tf\lib\site-packages (3.8.3)
Requirement already satisfied: contourpy>=1.0.1 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from
matplotlib) (1.2.0)
Requirement already satisfied: cycler>=0.10 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from matp
lotlib) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from
matplotlib) (4.49.0)
Requirement already satisfied: kiwisolver>=1.3.1 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from
matplotlib) (1.4.5)
Requirement already satisfied: numpy<2,>=1.21 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from ma
tplotlib) (1.26.4)
Requirement already satisfied: packaging>=20.0 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from m
atplotlib) (23.1)
Requirement already satisfied: pillow>=8 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from matplot
lib) (10.2.0)
Requirement already satisfied: pyparsing>=2.3.1 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from
matplotlib) (3.1.2)
Requirement already satisfied: python-dateutil>=2.7 in c:\users\student\miniconda3\envs\tf\lib\site-packages (f
rom matplotlib) (2.8.2)
Requirement already satisfied: importlib-resources>=3.2.0 in c:\users\student\miniconda3\envs\tf\lib\site-packa
ges (from matplotlib) (6.3.0)
Requirement already satisfied: zipp>=3.1.0 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from impor
tlib-resources>=3.2.0->matplotlib) (3.17.0)
Requirement already satisfied: six>=1.5 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from python-d
ateutil>=2.7->matplotlib) (1.16.0)
```

```
In [3]: pip install opencv-python
#This command installs the opencv-python package using pip. OpenCV (Open Source Computer Vision Library) is an
#computer vision and machine learning software library
```

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Requirement already satisfied: opencv-python in c:\users\student\miniconda3\envs\tf\lib\site-packages (4.5.5.64
)
Requirement already satisfied: numpy>=1.14.5 in c:\users\student\miniconda3\envs\tf\lib\site-packages (from ope
ncv-python) (1.26.4)
Note: you may need to restart the kernel to use updated packages.
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```
In [4]: import numpy as np
import matplotlib.pyplot as plt
# Matplotlib is a plotting library for Python. The pyplot module provides a MATLAB-like interface for creating
#customizing plots and visualizations.
import matplotlib.image as mpimg
#This imports the image submodule from Matplotlib, which contains functions for reading, writing, and displayin
import os
#The os module provides a portable way to interact with the operating system, such as reading or writing files
#directories.
from tensorflow.keras.layers import Conv2D,Conv2DTranspose, Dense, Flatten, Input,BatchNormalization,PRELU,Leak
from tensorflow.keras.optimizers import Adam
from tensorflow.keras.models import Model
from tensorflow.nn import depth_to_space
from tensorflow.keras.utils import plot_model
from tensorflow.keras.applications.vgg19 import VGG19
from tensorflow.math import reduce_mean,square
from tensorflow.keras.losses import MeanSquaredError,BinaryCrossentropy
from tensorflow.keras import Sequential
"""tensorflow.keras.layers: Contains various layers used to build neural networks, such as convolutional layers
tensorflow.keras.optimizers: Provides optimization algorithms to train neural networks, such as Adam (Adam).
tensorflow.keras.models: Contains tools for building and manipulating neural network models, such as the Model
tensorflow.nn.depth_to_space: A TensorFlow function for converting depth data into spatial data.
tensorflow.keras.utils.plot_model: Used for visualizing Keras models as graphs.
tensorflow.keras.applications.vgg19.VGG19: Pre-trained VGG19 model for image classification tasks.
tensorflow.math.reduce_mean and tensorflow.math.square: TensorFlow mathematical operations.
tensorflow.keras.losses: Contains loss functions used for training neural networks, such as mean squared error
tensorflow.keras.Sequential: A linear stack of layers used to build sequential models."""
import re
#The re module provides support for working with regular expressions in Python.
import cv2
#OpenCV is a popular computer vision library. This import statement imports the Python bindings for OpenCV, all
#to various computer vision functionalities like image processing, object detection, etc.
```

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In [88]: def sift(image):
#We define a function named sift that takes one argument, image
image= cv2.imread(image)
#the function reads the image specified by the image argument using OpenCV's cv2.imread() function
gray_scale= cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
#This line converts the color image loaded in the previous step (image) to grayscale using OpenCV's cv2.cvtColor
sift = cv2.SIFT_create()
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#This line creates a SIFT (Scale-Invariant Feature Transform) object using OpenCV's cv2.SIFT_create() funct
#method used for detecting and describing local features and keypoints in images
keypoints, _ = sift.detectAndCompute(image, None)
#Here, the detectAndCompute() method of the SIFT object is called to find keypoints and compute their descr
#input image. The keypoints are points of interest in the image. The function returns two values: keypoints,
#the detected keypoints, and _, which represents the descriptors (feature vectors) associated with the keyp
sift_image = cv2.drawKeypoints(gray_scale, keypoints, None)
#This line draws the detected keypoints on the grayscale image using the cv2.drawKeypoints() function. The
#with keypoints drawn on it is stored in the variable sift_image.
plt.imshow(sift_image)
#Finally, this line displays the image with the keypoints on it using Matplotlib's plt.imshow() function.
plt.axis('off')
#The plt.axis('off') line is used to turn off the axis lines and labels in the current Matplotlib plot.
return 'Number of Keypoints in this image are', len(keypoints)
#return a tuple containing a string indicating the number of keypoints detected in an image and the actual

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In [6]: def sorted_alphanumeric(data):
        convert = lambda text: int(text) if text.isdigit() else text.lower()
        alphanum_key = lambda key: [convert(c) for c in re.split('([0-9]+)', key)]
        return sorted(data, key = alphanum_key)

low_img = []
path = 'C:/Users/student/Desktop/dataset/Raw Data/low_res'
files = os.listdir(path)
files = sorted_alphanumeric(files)

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In [ ]: #This line defines a function named sorted_alphanumeric that takes one argument, data.
        #convert = lambda text: int(text) if text.isdigit() else text.lower()-This lambda function is used later to ext
        #and non-numeric parts of strings for sorting.
        #alphanum key = lambda key: [convert(c) for c in re.split('([0-9]+)', key)]-This lambda function is used to gene
        #custom sorting key for strings, where numeric parts are sorted numerically and non-numeric parts are sorted al
        #return sorted(data, key = alphanum_key)-This line returns a sorted version of the input data

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In [ ]: '''The code snippet then proceeds to create a list called low_img, which seems to contain the
        filenames of images in a directory sorted in alphanumeric order.
        path contains the directory path where the images are located.
        files = os.listdir(path) retrieves the list of filenames in the specified directory.
        files = sorted_alphanumeric(files) sorts the list of filenames using the sorted_alphanumeric function defined e
        After executing this code, low_img will contain the sorted list of filenames.'''

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In [7]: sample_image=path+"/"+files[13]
        sift(sample_image)
        #This line constructs the full path to a specific low-resolution image by concatenating the directory path (pat
        #and the filename at index 13 from the list files.
        #This line calls the sift() function for the file image we have defined.

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Out[7]: ('Number of Keypoints in this image are', 24)

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In [ ]:

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In [8]: def residual_blocks(input):
        x = Conv2D(64,(3,3),padding='same')(input)
        x = BatchNormalization()(x)
        x = ReLU()(x)
        x = Conv2D(64,(3,3),padding='same')(x)
        x = BatchNormalization()(x)
        x = Concatenate()([input,x])
        return x

def subpixel(input):
    x = UpSampling2D()(input)
    x = Conv2D(256,(3,3),padding='same')(x)

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x = ReLU()(x)
return x

def generator():
    inputs = Input(shape=(64,64,3))
    x1 = Conv2D(64,(9,9),padding='same')(inputs)
    x1 = ReLU()(x1)
    r = residual_blocks(x1)
    for _ in range(15):
        r = residual_blocks(r)
    x2 = Conv2D(64,(3,3),padding='same')(r)
    x2 = BatchNormalization()(x2)
    merge = Concatenate()([x2,x1])

    x = subpixel(merge)
    x = subpixel(x)
    output = Conv2D(3,(9,9),padding='same',activation='sigmoid')(x)

model = Model(inputs,output)
return model

```

In []: `'''residual_blocks(input): This function implements a series of residual blocks. Residual blocks are crucial in deep convolutional neural networks for enabling training of very deep networks without vanishing gradients. Each block consists of two convolutional layers with 64 filters, each followed by batch normalization and ReLU activation. The output of the second convolution is concatenated with the input to the block, thus creating a residual connection.'''`

`subpixel(input): This function seems to perform sub-pixel convolution, which is commonly used in super-resolution networks. It upsamples the input by a factor of 2 using nearest neighbor upsampling, followed by a 3x3 convolution with 2 filters and ReLU activation.`

`generator(): This function defines the generator model. It takes an input of shape (64, 64, 3), likely representing a low-resolution image, and passes it through a series of layers. First, a 9x9 convolutional layer with 64 filters is applied, followed by ReLU activation. Then, a stack of 15 residual blocks is applied, using the residual_blocks function. After the residual blocks, another 3x3 convolutional layer with 64 filters is applied, followed by batch normalization. This convolution is concatenated with the output of the first ReLU layer (x1). Then, the subpixel function is applied to gradually increase the resolution of the feature maps. Finally, a 9x9 convolutional layer with 3 filters and sigmoid activation is applied to generate the high-resolution output image.`

`Overall, this code defines a generator network for image super-resolution, which takes a low-resolution image as input and outputs a high-resolution image.'''`

In [9]: `g_model = generator()
#This line creates an instance of the generator model by calling the generator() function defined earlier.
#The generator model is assigned to the variable g_model.
g_model.summary()
#This line prints a summary of the generator model. The summary includes information about the architecture of the model, such as the layers, output shapes, and the number of parameters.`

Model: "model"

Layer (type)	Output Shape	Param #	Connected to
input_1 (InputLayer)	(None, 64, 64, 3)	0	[-]
conv2d (Conv2D)	(None, 64, 64, 64)	15616	['input_1[0][0]']
re_lu (ReLU)	(None, 64, 64, 64)	0	['conv2d[0][0]']
conv2d_1 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu[0][0]']
batch_normalization (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_1[0][0]']
re_lu_1 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization[0][0]']
conv2d_2 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_1[0][0]']
batch_normalization_1 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_2[0][0]']
concatenate (Concatenate)	(None, 64, 64, 128)	0	['re_lu[0][0]', 'batch_normalization_1[0][0]']
conv2d_3 (Conv2D)	(None, 64, 64, 64)	73792	['concatenate[0][0]']
batch_normalization_2 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_3[0][0]']
re_lu_2 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_2[0][0]']
conv2d_4 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_2[0][0]']
batch_normalization_3 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_4[0][0]']
concatenate_1 (Concatenate)	(None, 64, 64, 192)	0	['concatenate[0][0]', 'batch_normalization_3[0][0]']

conv2d_5 (Conv2D)	(None, 64, 64, 64)	110656	['concatenate_1[0][0]']
batch_normalization_4 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_5[0][0]']
re_lu_3 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_4[0][0]']
conv2d_6 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_3[0][0]']
batch_normalization_5 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_6[0][0]']
concatenate_2 (Concatenate)	(None, 64, 64, 256)	0	['concatenate_1[0][0]', 'batch_normalization_5[0][0]']
conv2d_7 (Conv2D)	(None, 64, 64, 64)	147520	['concatenate_2[0][0]']
batch_normalization_6 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_7[0][0]']
re_lu_4 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_6[0][0]']
conv2d_8 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_4[0][0]']
batch_normalization_7 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_8[0][0]']
concatenate_3 (Concatenate)	(None, 64, 64, 320)	0	['concatenate_2[0][0]', 'batch_normalization_7[0][0]']
conv2d_9 (Conv2D)	(None, 64, 64, 64)	184384	['concatenate_3[0][0]']
batch_normalization_8 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_9[0][0]']
re_lu_5 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_8[0][0]']
conv2d_10 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_5[0][0]']
batch_normalization_9 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_10[0][0]']
concatenate_4 (Concatenate)	(None, 64, 64, 384)	0	['concatenate_3[0][0]', 'batch_normalization_9[0][0]']
conv2d_11 (Conv2D)	(None, 64, 64, 64)	221248	['concatenate_4[0][0]']
batch_normalization_10 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_11[0][0]']
re_lu_6 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_10[0][0]']
conv2d_12 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_6[0][0]']
batch_normalization_11 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_12[0][0]']
concatenate_5 (Concatenate)	(None, 64, 64, 448)	0	['concatenate_4[0][0]', 'batch_normalization_11[0][0]']
conv2d_13 (Conv2D)	(None, 64, 64, 64)	258112	['concatenate_5[0][0]']
batch_normalization_12 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_13[0][0]']
re_lu_7 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_12[0][0]']
conv2d_14 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_7[0][0]']
batch_normalization_13 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_14[0][0]']
concatenate_6 (Concatenate)	(None, 64, 64, 512)	0	['concatenate_5[0][0]', 'batch_normalization_13[0][0]']
conv2d_15 (Conv2D)	(None, 64, 64, 64)	294976	['concatenate_6[0][0]']
batch_normalization_14 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_15[0][0]']
re_lu_8 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_14[0][0]']
conv2d_16 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_8[0][0]']
batch_normalization_15 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_16[0][0]']
concatenate_7 (Concatenate)	(None, 64, 64, 576)	0	['concatenate_6[0][0]',

			'batch_normalization_15[0][0]'
conv2d_17 (Conv2D)	(None, 64, 64, 64)	331840	['concatenate_7[0][0]']
batch_normalization_16 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_17[0][0]']
re_lu_9 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_16[0][0]']
conv2d_18 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_9[0][0]']
batch_normalization_17 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_18[0][0]']
concatenate_8 (Concatenate)	(None, 64, 64, 640)	0	['concatenate_7[0][0]', 'batch_normalization_17[0][0]']
conv2d_19 (Conv2D)	(None, 64, 64, 64)	368704	['concatenate_8[0][0]']
batch_normalization_18 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_19[0][0]']
re_lu_10 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_18[0][0]']
conv2d_20 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_10[0][0]']
batch_normalization_19 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_20[0][0]']
concatenate_9 (Concatenate)	(None, 64, 64, 704)	0	['concatenate_8[0][0]', 'batch_normalization_19[0][0]']
conv2d_21 (Conv2D)	(None, 64, 64, 64)	405568	['concatenate_9[0][0]']
batch_normalization_20 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_21[0][0]']
re_lu_11 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_20[0][0]']
conv2d_22 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_11[0][0]']
batch_normalization_21 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_22[0][0]']
concatenate_10 (Concatenate)	(None, 64, 64, 768)	0	['concatenate_9[0][0]', 'batch_normalization_21[0][0]']
conv2d_23 (Conv2D)	(None, 64, 64, 64)	442432	['concatenate_10[0][0]']
batch_normalization_22 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_23[0][0]']
re_lu_12 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_22[0][0]']
conv2d_24 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_12[0][0]']
batch_normalization_23 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_24[0][0]']
concatenate_11 (Concatenate)	(None, 64, 64, 832)	0	['concatenate_10[0][0]', 'batch_normalization_23[0][0]']
conv2d_25 (Conv2D)	(None, 64, 64, 64)	479296	['concatenate_11[0][0]']
batch_normalization_24 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_25[0][0]']
re_lu_13 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_24[0][0]']
conv2d_26 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_13[0][0]']
batch_normalization_25 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_26[0][0]']
concatenate_12 (Concatenate)	(None, 64, 64, 896)	0	['concatenate_11[0][0]', 'batch_normalization_25[0][0]']
conv2d_27 (Conv2D)	(None, 64, 64, 64)	516160	['concatenate_12[0][0]']
batch_normalization_26 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_27[0][0]']
re_lu_14 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_26[0][0]']
conv2d_28 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_14[0][0]']
batch_normalization_27 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_28[0][0]']

concatenate_13 (Concatenate)	(None, 64, 64, 960)	0	['concatenate_12[0][0]', 'batch_normalization_27[0][0]']
conv2d_29 (Conv2D)	(None, 64, 64, 64)	553024	['concatenate_13[0][0]']
batch_normalization_28 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_29[0][0]']
re_lu_15 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_28[0][0]']
conv2d_30 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_15[0][0]']
batch_normalization_29 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_30[0][0]']
concatenate_14 (Concatenate)	(None, 64, 64, 1024)	0	['concatenate_13[0][0]', 'batch_normalization_29[0][0]']
conv2d_31 (Conv2D)	(None, 64, 64, 64)	589888	['concatenate_14[0][0]']
batch_normalization_30 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_31[0][0]']
re_lu_16 (ReLU)	(None, 64, 64, 64)	0	['batch_normalization_30[0][0]']
conv2d_32 (Conv2D)	(None, 64, 64, 64)	36928	['re_lu_16[0][0]']
batch_normalization_31 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_32[0][0]']
concatenate_15 (Concatenate)	(None, 64, 64, 1088)	0	['concatenate_14[0][0]', 'batch_normalization_31[0][0]']
conv2d_33 (Conv2D)	(None, 64, 64, 64)	626752	['concatenate_15[0][0]']
batch_normalization_32 (Batch Normalization)	(None, 64, 64, 64)	256	['conv2d_33[0][0]']
concatenate_16 (Concatenate)	(None, 64, 64, 128)	0	['batch_normalization_32[0][0]', 're_lu[0][0]']
up_sampling2d (UpSampling2D)	(None, 128, 128, 128)	0	['concatenate_16[0][0]']
conv2d_34 (Conv2D)	(None, 128, 128, 256)	295168	['up_sampling2d[0][0]']
re_lu_17 (ReLU)	(None, 128, 128, 256)	0	['conv2d_34[0][0]']
up_sampling2d_1 (UpSampling2D)	(None, 256, 256, 256)	0	['re_lu_17[0][0]']
conv2d_35 (Conv2D)	(None, 256, 256, 256)	590080	['up_sampling2d_1[0][0]']
re_lu_18 (ReLU)	(None, 256, 256, 256)	0	['conv2d_35[0][0]']
conv2d_36 (Conv2D)	(None, 256, 256, 3)	62211	['re_lu_18[0][0]']

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Total params: 7,203,651
Trainable params: 7,199,427
Non-trainable params: 4,224

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In [10]: def conv_block(input,n_channels):
x = Conv2D(n_channels,(3,3),padding='same')(input)
x = BatchNormalization()(x)
x = LeakyReLU(0.2)(x)
x = Conv2D(n_channels,(3,3),padding='same',strides=(2,2))(x)
x = BatchNormalization()(x)
x = LeakyReLU(0.2)(x)
return x

def discriminator():
input = Input(shape=(256,256,3))
c1 = Conv2D(64,(3,3),padding='same')(input)
c1 = LeakyReLU(0.2)(c1)
c1 = Conv2D(64,(3,3),padding='same',strides=(2,2))(c1)
c1 = BatchNormalization()(c1)
c1 = LeakyReLU(0.2)(c1)
c2 = conv_block(c1,128)
c3 = conv_block(c2,256)
c4 = conv_block(c3,512)
x = Flatten()(c4)
x = Dense(1024)(x)

```

```
x = LeakyReLU(0.2)(x)
output = Dense(1,activation='sigmoid')(x)
model = Model([input],output)
return model
```

In []: `'''This code defines a discriminator model for use in a GAN (Generative Adversarial Network). Let's break it d`

`conv_block(input, n_channels) function:`

This function defines a convolutional block used within the discriminator. It takes an input tensor and the number of output channels (n_channels) as arguments.

It performs two convolutional operations with 3x3 filters and 'same' padding, followed by batch normalization and a sigmoid activation with a slope of 0.2.

The second convolutional operation uses a stride of (2,2) for downsampling.

`discriminator()` function:

This function defines the discriminator model.

It starts with an input tensor of shape (256, 256, 3), which represents an image with a resolution of 256x256 pixels and 3 color channels (RGB).

The input tensor is passed through two convolutional layers with 64 filters each, followed by LeakyReLU activation and downsampling using a stride of (2,2).

Then, it applies three convolutional blocks with increasing numbers of output channels: 128, 256, and 512.

After the convolutional blocks, the feature maps are flattened, and a fully connected layer with 1024 units is followed by LeakyReLU activation.

Finally, the output layer consists of a single neuron with sigmoid activation, which outputs a probability indicating the likelihood that the input image is real.

The discriminator's architecture progressively extracts features from the input image, downsampling it while increasing the number of channels. The final output is a single probability value indicating the authenticity of the input image.

In [11]: `d_model = discriminator()
d_model.summary()`

`'''This code will provide a detailed overview of the discriminator's architecture, including information about the output shapes, and the number of parameters. If you run this code, you'll get a summary printed in the console window. Let me know if you need further assistance!'''`

Model: "model_1"

Layer (type)	Output Shape	Param #
=====		
input_2 (InputLayer)	[(None, 256, 256, 3)]	0
conv2d_37 (Conv2D)	(None, 256, 256, 64)	1792
leaky_re_lu (LeakyReLU)	(None, 256, 256, 64)	0
conv2d_38 (Conv2D)	(None, 128, 128, 64)	36928
batch_normalization_33 (Batch Normalization)	(None, 128, 128, 64)	256
leaky_re_lu_1 (LeakyReLU)	(None, 128, 128, 64)	0
conv2d_39 (Conv2D)	(None, 128, 128, 128)	73856
batch_normalization_34 (Batch Normalization)	(None, 128, 128, 128)	512
leaky_re_lu_2 (LeakyReLU)	(None, 128, 128, 128)	0
conv2d_40 (Conv2D)	(None, 64, 64, 128)	147584
batch_normalization_35 (Batch Normalization)	(None, 64, 64, 128)	512
leaky_re_lu_3 (LeakyReLU)	(None, 64, 64, 128)	0
conv2d_41 (Conv2D)	(None, 64, 64, 256)	295168
batch_normalization_36 (Batch Normalization)	(None, 64, 64, 256)	1024
leaky_re_lu_4 (LeakyReLU)	(None, 64, 64, 256)	0
conv2d_42 (Conv2D)	(None, 32, 32, 256)	590080
batch_normalization_37 (Batch Normalization)	(None, 32, 32, 256)	1024
leaky_re_lu_5 (LeakyReLU)	(None, 32, 32, 256)	0
conv2d_43 (Conv2D)	(None, 32, 32, 512)	1180160
batch_normalization_38 (Batch Normalization)	(None, 32, 32, 512)	2048
leaky_re_lu_6 (LeakyReLU)	(None, 32, 32, 512)	0
conv2d_44 (Conv2D)	(None, 16, 16, 512)	2359808
batch_normalization_39 (Batch Normalization)	(None, 16, 16, 512)	2048
leaky_re_lu_7 (LeakyReLU)	(None, 16, 16, 512)	0
flatten (Flatten)	(None, 131072)	0
dense (Dense)	(None, 1024)	134218752
leaky_re_lu_8 (LeakyReLU)	(None, 1024)	0
dense_1 (Dense)	(None, 1)	1025
=====		
Total params: 138,912,577		
Trainable params: 138,908,865		
Non-trainable params: 3,712		

```
In [12]: def vgg_model():
selected_layers = ['block3_conv4' ]
vgg_model = VGG19(include_top=False,
                  input_shape=(256,256,3))
for layers in vgg_model.layers:
    layers.trainable = False
model = Model(vgg_model.input,outputs=[vgg_model.get_layer(layer).output for layer in selected_layers])
model.trainable = False
return model

vgg_model = vgg_model()
vgg_model.summary()

vgg_model.trainable
```


Model: "model_2"

Layer (type)	Output Shape	Param #
input_3 (InputLayer)	[(None, 256, 256, 3)]	0
block1_conv1 (Conv2D)	(None, 256, 256, 64)	1792
block1_conv2 (Conv2D)	(None, 256, 256, 64)	36928
block1_pool (MaxPooling2D)	(None, 128, 128, 64)	0
block2_conv1 (Conv2D)	(None, 128, 128, 128)	73856
block2_conv2 (Conv2D)	(None, 128, 128, 128)	147584
block2_pool (MaxPooling2D)	(None, 64, 64, 128)	0
block3_conv1 (Conv2D)	(None, 64, 64, 256)	295168
block3_conv2 (Conv2D)	(None, 64, 64, 256)	590080
block3_conv3 (Conv2D)	(None, 64, 64, 256)	590080
block3_conv4 (Conv2D)	(None, 64, 64, 256)	590080

=====
Total params: 2,325,568
Trainable params: 0
Non-trainable params: 2,325,568

Out[12]: False

In []: '''This code defines a function vgg_model() which creates a VGG19 model with specified layers, freezes the weights, and returns the model. Then, it instantiates the VGG model, prints its summary, and checks if the model is trainable. Let's break down each part:

vgg_model() function:

This function creates a VGG19 model with specified layers. In this case, only the layer named 'block3_conv4' is trainable. The weights of all layers are frozen by setting trainable attribute to False. It returns the modified VGG19 model with only the specified layers. Instantiating the VGG model:

The vgg_model() function is called to create an instance of the VGG19 model with the specified layers. The summary of the model is printed using vgg_model.summary(), which displays the architecture of the VGG19 model. Checking model's trainability:

vgg_model.trainable is used to check if the entire model is trainable. Since all layers were set to non-trainable in the vgg_model() function, this will return False, indicating that the model is not trainable.'''

In [13]: from tensorflow import add,dtypes
crossEntropy = BinaryCrossentropy()
mse = MeanSquaredError()
def discriminator_loss(real_output,fake_output,batch_size):
 valid = np.ones((batch_size,1))
 fake = np.zeros((batch_size,1))
 real_loss = crossEntropy(valid,real_output)
 fake_loss = crossEntropy(fake,fake_output)
 total_loss = 0.5*(real_loss + fake_loss)
 return total_loss

def generator_loss(generated_image,real_hr,batch_size):
 fake_image_features = vgg_model(generated_image)
 real_image_features = vgg_model(real_hr)
 vgg_loss = mse(fake_image_features,real_image_features)
 vgg_loss = dtypes.cast(vgg_loss,tf.float64)
 d_out_fake = d_model(generated_image)
 gan_loss = (1e-3)*crossEntropy(d_out_fake,np.ones((batch_size,1)))
 total_loss = add(gan_loss,vgg_loss)
 return total_loss

In []: '''This code defines two loss functions: discriminator_loss and generator_loss, which are used to calculate the loss for the discriminator and generator models, respectively. Let's go through each function:

discriminator_loss(real_output, fake_output, batch_size):

This function calculates the loss for the discriminator. It takes three arguments: real_output (output of the discriminator for real images), fake_output (output of the discriminator for fake/generated images), and batch_size. It creates two arrays: valid (an array of ones indicating real images) and fake (an array of zeros indicating fake images). It calculates the binary cross-entropy loss for the discriminator's predictions on real and fake images. The total loss is computed as the average of the sum of real and fake losses. generator_loss(generated_image, real_hr, batch_size):

This function calculates the loss for the generator. It takes three arguments: generated_image (the image generated by the generator), real_hr (the high-resolution

and batch size.

It computes the features of the generated and real images using the VGG model (vgg_model). Then, it calculates the mean squared error (MSE) loss between the features of the generated and real images. Next, it computes the discriminator's output for the generated image using the d_model discriminator model. It calculates the binary cross-entropy loss for the discriminator's output on the generated image. The total loss is the sum of the GAN loss and VGG loss.

This code is designed for training a GAN-based model, where the generator aims to produce realistic images that the discriminator, and the discriminator aims to distinguish between real and fake images. The losses are computed as the sum of the GAN loss and VGG loss. The predictions of the discriminator and the features extracted by the VGG network.'

```
In [14]: lr_path = 'C:/Users/student/Desktop/dataset/Raw Data/low_res'
hr_path = 'C:/Users/student/Desktop/dataset/Raw Data/high_res'
lr = []
for image in sorted(os.listdir(lr_path)):
    img_path = os.path.join(lr_path, image)
    img = cv2.imread(img_path)
    img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
    img = cv2.resize(img, (64, 64))
    img = (img/255)
    img = img.astype('float32')
    lr.append(img)

hr = []
for image in sorted(os.listdir(hr_path)):
    img_path = os.path.join(hr_path, image)
    img = cv2.imread(img_path)
    img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
    img = cv2.resize(img, (256, 256))
    img = (img/255)
    img = img.astype('float32')
    hr.append(img)
```

```
In [ ]: """
It appears you're loading a dataset consisting of low-resolution (LR) and high-resolution (HR) images from directories
specified by lr_path and hr_path, respectively. The images are then resized and normalized before being stored in
lr and hr. Let me explain the code:
lr_path = 'C:/Users/student/Desktop/dataset/Raw Data/low_res'
hr_path = 'C:/Users/student/Desktop/dataset/Raw Data/high_res'
These lines define the paths to directories containing the low-resolution (LR) and high-resolution (HR) images.
Similarly, this loop iterates over each image file in the HR directory and performs the same preprocessing step
described above, but the images are resized to a target size of 256x256 pixels.
```

After executing this code, you'll have two lists: lr, containing the preprocessed LR images, and hr, containing preprocessed HR images. These lists can then be used for training your model. If you have any further questions or need additional assistance, feel free to ask!

This loop iterates over each image file in the LR directory. For each image, it:

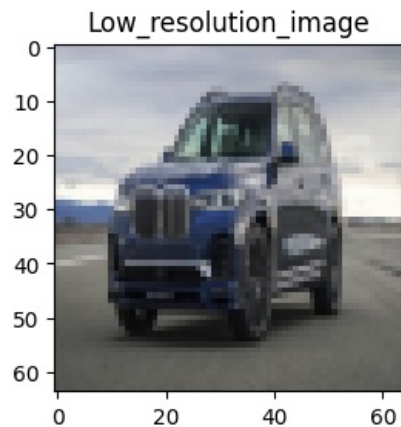
- Constructs the full path to the image file.
- Reads the image using OpenCV (cv2.imread()).
- Converts the image from BGR to RGB color space using OpenCV (cv2.cvtColor()).
- Resizes the image to a target size of 64x64 pixels using OpenCV (cv2.resize()).
- Normalizes the pixel values to the range [0, 1].
- Converts the pixel datatype to float32.
- Appends the preprocessed image to the list lr

```
In [15]: lr[0].shape
type(lr[0])
#The code lr[0].shape returns the shape of the first low-resolution image in the lr list, while type(lr[0]) returns
#type of the first low-resolution image
```

```
Out[15]: numpy.ndarray
```

```
In [16]: plt.subplot(1,2,1)
plt.imshow(lr[10])
plt.title("Low_resolution_image")
#Running this code will display the specified low-resolution image with the title "Low_resolution_image" in the
#subplot. If you want to display another image, you can change the index in lr[10] to the index of the desired
#lr list.
```

```
Out[16]: Text(0.5, 1.0, 'Low_resolution_image')
```



```
In [17]: lr = np.reshape(lr,(len(lr),64,64,3))
         hr = np.reshape(hr,(len(hr),256,256,3))
         lr.shape,hr.shape
```

```
Out[17]: ((855, 64, 64, 3), (855, 256, 256, 3))
```

In []: This line reshapes the LR image array `lr` using `np.reshape()`. The new shape specified is `(len(lr), 64, 64, 3)`, where `len(lr)` represents the number of images in the LR dataset. The second and third dimensions (64, 64) represent the height and width of each LR image after resizing. The fourth dimension 3 represents the number of color channels (assuming RGB images). This reshaping ensures that each LR image has the correct shape (64, 64, 3) for processing by the neural network. Finally, both LR and HR image arrays are reshaped to have the appropriate dimensions, and their shapes are printed for verification.

```
In [ ]: from tensorflow import GradientTape,function
        generator_optimizer = Adam(learning_rate=0.0001,beta_1=0.9)
        discriminator_optimizer = Adam(learning_rate=0.0001,beta_1=0.9)

        @tf.function
        def train_step(lr_images,hr_images,n_samples):
            with GradientTape() as disc_tape:
                generated_images = g_model(lr_images,training=True)
                real_output = d_model(hr_images,training=True)
                fake_output = d_model(generated_images,training=True)
                d_loss = discriminator_loss(real_output,fake_output,n_samples)
            gradients_of_discriminator = disc_tape.gradient(d_loss, d_model.trainable_variables)
            discriminator_optimizer.apply_gradients(zip(gradients_of_discriminator, d_model.trainable_variables))

            with tf.GradientTape() as gen_tape:
                fake_output = g_model(lr_images)
                g_loss = generator_loss(fake_output, hr_images,n_samples)

            gradients_of_generator = gen_tape.gradient(g_loss, g_model.trainable_variables)
            generator_optimizer.apply_gradients(zip(gradients_of_generator, g_model.trainable_variables))

            return d_loss,g_loss
```

```
In [18]: #This code defines a training step function train_step using TensorFlow's GradientTape
        from tensorflow import GradientTape,function
        generator_optimizer = Adam(learning_rate=0.0001,beta_1=0.9)
        discriminator_optimizer = Adam(learning_rate=0.0001,beta_1=0.9)
        #These lines define Adam optimizers for both the generator and discriminator models. The learning rate is set to 0.0001
        #and the beta_1 parameter is set to 0.9.

        @tf.function
        #This line decorates the train_step function with @tf.function, which converts the Python function into a TensorFlow
        #function for faster execution.

        def train_step(lr_images,hr_images,n_samples):
            with GradientTape() as disc_tape:
                generated_images = g_model(lr_images,training=True)
```

```

    real_output = d_model(hr_images, training=True)
    fake_output = d_model(generated_images, training=True)

    #Within the gradient tape context for the discriminator (disc_tape), it:
    #Generates fake images using the generator model (g_model) with LR images as input.
    #Obtains the output of the discriminator (d_model) for both real and fake images.
    #Calculates the discriminator loss (d_loss) using discriminator_loss function.

    d_loss = discriminator_loss(real_output, fake_output, n_samples)
    gradients_of_discriminator = disc_tape.gradient(d_loss, d_model.trainable_variables)
    discriminator_optimizer.apply_gradients(zip(gradients_of_discriminator, d_model.trainable_variables))

    #It computes the gradients of the discriminator loss with respect to the discriminator's trainable variables, a
    #these gradients to update the discriminator's weights using the discriminator optimizer.

    with tf.GradientTape() as gen_tape:
        fake_output = g_model(lr_images)
        g_loss = generator_loss(fake_output, hr_images, n_samples)

    #Within the gradient tape context for the generator (gen_tape), it:
    #Generates fake images using the generator model (g_model) with LR images as input.
    #Calculates the generator loss (g_loss) using generator_loss function.

    gradients_of_generator = gen_tape.gradient(g_loss, g_model.trainable_variables)
    generator_optimizer.apply_gradients(zip(gradients_of_generator, g_model.trainable_variables))

    #It computes the gradients of the generator loss with respect to the generator's trainable variables, applies t
    #gradients to update the generator's weights using the generator optimizer'''

    return d_loss, g_loss

#Finally, it returns the discriminator and generator losses.

#This function performs a single training step for the GAN model, updating the weights of both the discriminato
#generator models based on the calculated losses.'''

```

In [19]: `from keras.models import load_model` #To load a model using Keras, you can use the `load_model` function from kera

```

In [ ]: def train(lr_images, hr_images, epochs=50, n_samples=5):
    num_images = len(lr_images)
    for epoch in range(epochs):
        for batch_start in range(0, num_images, n_samples):
            batch_end = min(batch_start + n_samples, num_images)
            input_lr = lr_images[batch_start:batch_end]
            input_hr = hr_images[batch_start:batch_end]
            d_loss, g_loss = train_step(input_lr, input_hr, n_samples)
            print(f'Epoch: {epoch + 1} - Batch: {batch_start // n_samples + 1}/{(num_images + n_samples - 1) // n_samples}')
        if epoch % 10 == 0:
            file_name = f'generator_model_epoch_{epoch}.h5'
            g_model.save(file_name)

    train(lr[:855], hr[:855])

```

In [89]: #This code defines a training function train for training a GAN model on LR and HR image pairs

```

def train(lr_images, hr_images, epochs=50, n_samples=5):
    num_images = len(lr_images) #This line calculates the total number of LR images in the dataset.
    for epoch in range(epochs): #This loop iterates over the specified number of epochs.
        for batch_start in range(0, num_images, n_samples):
            batch_end = min(batch_start + n_samples, num_images)
            input_lr = lr_images[batch_start:batch_end]
            input_hr = hr_images[batch_start:batch_end]
            d_loss, g_loss = train_step(input_lr, input_hr, n_samples)
            print(f'Epoch: {epoch + 1} - Batch: {batch_start // n_samples + 1}/{(num_images + n_samples - 1) // n_samples} - {d_loss}, {g_loss}')

    #This loop iterates over the LR images in batches of size n_samples. For each batch:
    #It selects a batch of LR and HR images.
    #It performs a training step using the train_step function defined earlier, which updates the weights of the
    #discriminator and generator models.
    #It prints the epoch number, batch number, discriminator loss, and generator loss.

    if epoch % 10 == 0:
        file_name = f'generator_model_epoch_{epoch}.h5'
        g_model.save(file_name)

    #Every 10 epochs, the generator model (g_model) is saved to a file named generator_model_epoch_{epoch}.h5.
    #This allows you to monitor the progress of the generator during training
    train(lr[:855], hr[:855])

#This line calls the train function with the LR and HR image datasets, using the first 855 images from dataset

```

```

Epoch: 1 - Batch: 1/171 - - 12.110645294189453, 22.65062602907128
Epoch: 1 - Batch: 2/171 - - 2.813004732131958, 25.01518440246582
Epoch: 1 - Batch: 3/171 - - 3.95013194065541e-05, 26.89241410441812
Epoch: 1 - Batch: 4/171 - - 2.7579721972870175e-06, 28.662347817851224
Epoch: 1 - Batch: 5/171 - - 1.214034080505371, 19.195042573409086

```

Epoch: 1 - Batch: 6/171 - - 4.817137718200684, 24.165274553140485
Epoch: 1 - Batch: 7/171 - - 6.035848491592333e-05, 18.655859799248795
Epoch: 1 - Batch: 8/171 - - 6.535170078277588, 18.347058401521487
Epoch: 1 - Batch: 9/171 - - 1.0010982002032105e-25, 24.63887038376802
Epoch: 1 - Batch: 10/171 - - 0.014539050869643688, 12.89321549942408
Epoch: 1 - Batch: 11/171 - - 0.0001517611090093851, 24.529626552638216
Epoch: 1 - Batch: 12/171 - - 5.9456488088471815e-06, 25.687267010027913
Epoch: 1 - Batch: 13/171 - - 1.8029228448867798, 21.92683804911531
Epoch: 1 - Batch: 14/171 - - 0.0019209595629945397, 17.666535260771145
Epoch: 1 - Batch: 15/171 - - 0.0005182755994610488, 22.45958108167997
Epoch: 1 - Batch: 16/171 - - 1.6992593998566008e-09, 32.13548440045092
Epoch: 1 - Batch: 17/171 - - 0.007367733865976334, 20.81986670230634
Epoch: 1 - Batch: 18/171 - - 0.6792682409286499, 20.31692335831402
Epoch: 1 - Batch: 19/171 - - 0.9109122157096863, 26.39921428943205
Epoch: 1 - Batch: 20/171 - - 8.695641326994519e-07, 23.39826504182264
Epoch: 1 - Batch: 21/171 - - 1.9937798976898193, 17.481069922291496
Epoch: 1 - Batch: 22/171 - - 2.295712064892541e-08, 18.73227146526005
Epoch: 1 - Batch: 23/171 - - 1.1915717124938965, 21.745061502154897
Epoch: 1 - Batch: 24/171 - - 1.8173168116306267e-15, 10.922334679846735
Epoch: 1 - Batch: 25/171 - - 1.2244624801940884e-12, 21.578067781012052
Epoch: 1 - Batch: 26/171 - - 0.1323995441198349, 15.752022599012781
Epoch: 1 - Batch: 27/171 - - 0.001586519880220294, 11.9000244140625
Epoch: 1 - Batch: 28/171 - - 2.0143344402313232, 20.457613936103687
Epoch: 1 - Batch: 29/171 - - 1.5190331935882568, 18.17429050630827
Epoch: 1 - Batch: 30/171 - - 3.465482222964056e-05, 15.375720963874011
Epoch: 1 - Batch: 31/171 - - 0.8759934306144714, 31.664722442994712
Epoch: 1 - Batch: 32/171 - - 0.49289703369140625, 21.693924052064673
Epoch: 1 - Batch: 33/171 - - 1.1138400965449158e-11, 18.795829602171803
Epoch: 1 - Batch: 34/171 - - 0.007865270599722862, 23.63364289801876
Epoch: 1 - Batch: 35/171 - - 5.119575803291809e-07, 35.28080368041992
Epoch: 1 - Batch: 36/171 - - 4.403766979521600e-06, 23.14728165114163
Epoch: 1 - Batch: 37/171 - - 0.42532435059547424, 25.256425367018043
Epoch: 1 - Batch: 38/171 - - 1.8790098428726196, 19.54200062789476
Epoch: 1 - Batch: 39/171 - - 7.997404821713516e-13, 10.292877967255327
Epoch: 1 - Batch: 40/171 - - 6.10360050201416, 19.99719518611379
Epoch: 1 - Batch: 41/171 - - 0.22156159579753876, 20.360259399450026
Epoch: 1 - Batch: 42/171 - - 2.1315360069274902, 20.75622824227604
Epoch: 1 - Batch: 43/171 - - 0.00016451242845505476, 12.170605659484863
Epoch: 1 - Batch: 44/171 - - 5.042162840680417e-14, 22.060327529907227
Epoch: 1 - Batch: 45/171 - - 0.11770298331975937, 15.348493423563141
Epoch: 1 - Batch: 46/171 - - 0.06600278615951538, 22.29223904242851
Epoch: 1 - Batch: 47/171 - - 1.5115177631378174, 22.185047186434147
Epoch: 1 - Batch: 48/171 - - 0.028055259957909584, 15.099389763234209
Epoch: 1 - Batch: 49/171 - - 0.09442545473575592, 16.781984329223633
Epoch: 1 - Batch: 50/171 - - 0.00016270604101009667, 17.122766605814324
Epoch: 1 - Batch: 51/171 - - 1.1293597221374512, 24.248532533393377
Epoch: 1 - Batch: 52/171 - - 4.2307951546856903e-19, 18.157817840576172
Epoch: 1 - Batch: 53/171 - - 3.712716245551917e-11, 19.158126831054688
Epoch: 1 - Batch: 54/171 - - 0.30297985672950745, 20.34865496137255
Epoch: 1 - Batch: 55/171 - - 3.2155654007548495e-12, 14.640554428100586
Epoch: 1 - Batch: 56/171 - - 1.666477150502263e-13, 12.74662311224022
Epoch: 1 - Batch: 57/171 - - 0.8658825159072876, 21.510375861413053
Epoch: 1 - Batch: 58/171 - - 0.03129798546433449, 20.63414480730871
Epoch: 1 - Batch: 59/171 - - 3.391171049111068e-16, 18.106612394746573
Epoch: 1 - Batch: 60/171 - - 7.699864498689674e-18, 27.812723163099875
Epoch: 1 - Batch: 61/171 - - 0.00029490303131751716, 17.837335293108737
Epoch: 1 - Batch: 62/171 - - 1.7870444059371948, 21.94294107680902
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Epoch: 1 - Batch: 166/171 - - 4.056755701511228e-23, 15.34330538082976
Epoch: 1 - Batch: 167/171 - - 0.4615645110607147, 20.136188316369285
Epoch: 1 - Batch: 168/171 - - 0.01686476543545723, 18.32525297596087
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WARNING:tensorflow:Compiled the loaded model, but the compiled metrics have yet to be built. `model.compile_metrics` will be empty until you train or evaluate the model.
Epoch: 2 - Batch: 1/171 - - 3.3065502643585205, 17.348786609414507
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WARNING:tensorflow:Compiled the loaded model, but the compiled metrics have yet to be built. `model.compile_metrics` will be empty until you train or evaluate the model.
Epoch: 12 - Batch: 1/171 - - 2.379380702972412, 13.109219551821944
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Epoch: 21 - Batch: 133/171 - - 2.667718910359662e-12, 13.145381199764657
Epoch: 21 - Batch: 134/171 - - 6.264821422519162e-06, 13.248043464133785
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Epoch: 21 - Batch: 136/171 - - 1.0116657511716198e-09, 10.053535345758265
Epoch: 21 - Batch: 137/171 - - 0.007612100802361965, 12.399413620281168
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Epoch: 21 - Batch: 148/171 - - 3.04794656180718e-09, 14.933529984743158
Epoch: 21 - Batch: 149/171 - - 1.682147476866902e-11, 10.677110707560374
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Epoch: 21 - Batch: 153/171 - - 0.007973385974764824, 11.337532327106153
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Epoch: 21 - Batch: 157/171 - - 7.160879249568097e-07, 7.61424545742183
Epoch: 21 - Batch: 158/171 - - 5.062929669209237e-17, 8.969902193003767
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Epoch: 21 - Batch: 163/171 - - 2.285529136657715, 17.06224522223808
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Epoch: 21 - Batch: 170/171 - - 1.5906085764072486e-06, 11.404206938914765
Epoch: 21 - Batch: 171/171 - - 1.185550332069397, 13.144490557571244

WARNING:tensorflow:Compiled the loaded model, but the compiled metrics have yet to be built. `model.compile_metrics` will be empty until you train or evaluate the model.

Epoch: 22 - Batch: 1/171 - - 0.0011250616516917944, 11.203858893786242
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Epoch: 22 - Batch: 3/171 - - 2.897412514357711e-07, 13.319707559054082
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Epoch: 22 - Batch: 5/171 - - 2.878560757813009e-11, 9.863760815638543
Epoch: 22 - Batch: 6/171 - - 1.2462143672564707e-07, 12.594431730784462
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Epoch: 22 - Batch: 8/171 - - 1.017417311668396, 8.810401917607184
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WARNING:tensorflow:Compiled the loaded model, but the compiled metrics have yet to be built. `model.compile_metrics` will be empty until you train or evaluate the model.

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Epoch: 41 - Batch: 171/171 - - 0.0, 11.338622405350153

WARNING:tensorflow:Compiled the loaded model, but the compiled metrics have yet to be built. `model.compile_metrics` will be empty until you train or evaluate the model.

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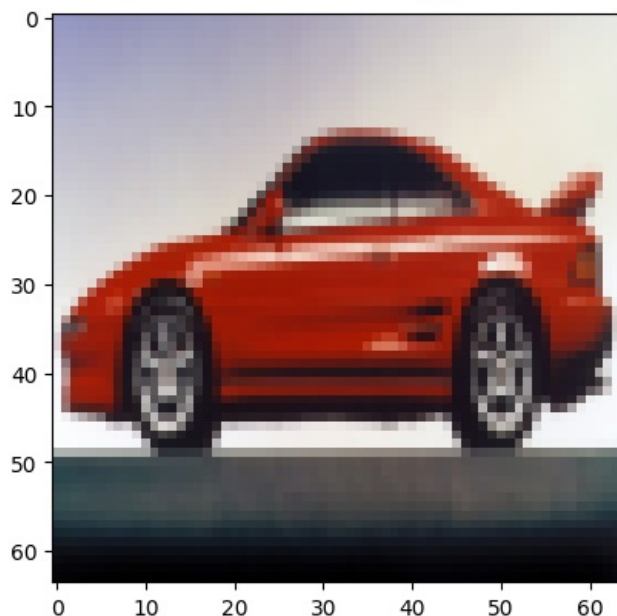
```
In [ ]: #Overall, this function trains the GAN model for the specified number of epochs, printing the loss values per epoch
#and saving the generator model checkpoints every 10 epochs.
```

```
In [20]: # Here we load the weights from the saved file
g_model.load_weights("generator_model_epoch_0.h5")
g_model.load_weights("generator_model_epoch_10.h5")
g_model.load_weights("generator_model_epoch_20.h5")
g_model.load_weights("generator_model_epoch_30.h5")
g_model.load_weights("generator_model_epoch_40.h5")
# Compile the generator model
g_model.compile(optimizer='adam', loss='binary_crossentropy', metrics=['accuracy'])
```

```
In [21]: img_path = 'C:/Users/student/Desktop/dataset/Raw Data/low_res/13.png'
img = cv2.imread(img_path)
img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
#This line converts the color space of the image from BGR (Blue-Green-Red) to RGB (Red-Green-Blue), which is the
#color space used in most image processing libraries, including Matplotlib.
img = img/255.#This line normalizes the pixel values of the image to the range [0, 1] by dividing each pixel value
img = img.astype('float32')#This line converts the data type of the image array to float32.
print('The shape of the image is',img.shape)
#This line prints the shape of the image array, which represents its dimensions (height, width, and number of channels)
plt.imshow(img)#This line uses Matplotlib (plt.imshow) to display the image
```

The shape of the image is (64, 64, 3)

```
Out[21]: <matplotlib.image.AxesImage at 0x1ee648d9820>
```



```
In [ ]: in_img = np.expand_dims(img,axis=0)
a = g_model.predict(in_img)
a = np.squeeze(a,axis=0)
plt.imshow(a)
plt.axis('off')
plt.savefig('C:/Users/student/Desktop/dataset/generated_HR_13', bbox_inches='tight', pad_inches=0) # Save the image
plt.close()
```

```
In [22]: #This line expands the dimensions of the input image array img along the first axis, effectively adding a batch dimension.
#This is necessary because the predict method of Keras models expects input data with batch dimensions.
in_img = np.expand_dims(img,axis=0)
a = g_model.predict(in_img)
#This line uses the generator model (g_model) to generate a HR image from the LR input image.
#The predict method returns the predicted HR image.
a = np.squeeze(a,axis=0)
#This line removes the batch dimension from the predicted HR image, making it a 3-dimensional array representing the image.
plt.imshow(a)
plt.axis('off')
#This code uses Matplotlib to display the predicted HR image without axis ticks.
plt.savefig('C:/Users/student/Desktop/dataset/generated_HR_13', bbox_inches='tight', pad_inches=0)
#This line saves the displayed image as a file named 'generated_HR_13' in the specified directory.
#The parameters bbox_inches='tight' and pad_inches=0 ensure that the saved image has minimal padding around it.
plt.close()
```

```
#Overall, this code takes a low-resolution input image, generates a high-resolution image using the generator m
#displays it using Matplotlib, saves it as a file, and then closes the figure. If you run this code, you should
#generated HR image saved at the specified location.
```

```
1/1 [=====] - 6s 6s/step
```

```
In [23]: path = "C:/Users/student/Desktop/dataset/generated_HR_13.png"
sift(path)#here we apply sift algorithm to find the key points in the generated HR image
```

```
Out[23]: ('Number of Keypoints in this image are', 225)
```



```
In [24]: def calculate_psnr(original_img, processed_img, max_pixel_value):
mse = np.mean((original_img - processed_img) ** 2)
psnr = 10 * np.log10((max_pixel_value ** 2) / mse)
return psnr

original_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/13.png', cv2.IMREAD_GRAYSCALE)
processed_image = cv2.imread("C:/Users/student/Desktop/dataset/generated_HR_13.png", cv2.IMREAD_GRAYSCALE)
original_image = cv2.resize(original_image, (processed_image.shape[1], processed_image.shape[0]))
original_image = original_image.astype(np.float64)
processed_image = processed_image.astype(np.float64)
max_pixel_value = 255
psnr = calculate_psnr(original_image, processed_image, max_pixel_value)

print("The PSNR value between the original image and processed image is:", psnr, "dB")
```

The PSNR value between the original image and processed image is: 25.81173013572808 dB

```
In [ ]: '''Here's a breakdown of the code:
```

Definition of calculate_psnr function:

This function takes three arguments: original_img, processed_img, and max_pixel_value. It calculates the Mean Squared Error (MSE) between the original and processed images. Using the formula for PSNR, it computes the PSNR value in decibels (dB). It returns the PSNR value.

Loading and preprocessing images:

The original and processed images are loaded using OpenCV's cv2.imread function. Both images are converted to grayscale using the flag cv2.IMREAD_GRAYSCALE. The size of the original image is resized to match the dimensions of the processed image using cv2.resize. Both images are converted to floating-point arrays (np.float64) to ensure accurate computation. Calculation of PSNR:

The maximum pixel value (max_pixel_value) is set to 255 for 8-bit images. PSNR is calculated using the calculate_psnr function. Printing the PSNR value:

The PSNR value is printed to the console.

```
In [108]: import numpy as np
import cv2

def calculate_ssim(img1, img2):
    C1 = (0.01 * 255)**2
    C2 = (0.03 * 255)**2
    mu1 = np.mean(img1)
    mu2 = np.mean(img2)
    sigma1_sq = np.var(img1)
    sigma2_sq = np.var(img2)
    sigma12 = np.cov(img1.flatten(), img2.flatten())[0, 1]
    ssim_value = ((2 * mu1 * mu2 + C1) * (2 * sigma12 + C2)) / ((mu1**2 + mu2**2 + C1) * (sigma1_sq + sigma2_sq))
    return ssim_value
```

```
In [ ]: """
The provided code defines a function calculate_ssim to compute the Structural Similarity Index (SSIM) between two images.
Here's how the function works:

Initialization of Constants (C1 and C2):

C1 and C2 are constants used to stabilize the division with weak denominator. They are derived from the dynamic
pixel values (255 for 8-bit images) and small constants (0.01 and 0.03), which are used to avoid instability when
variance is close to zero.
Calculation of Image Statistics:

mu1 and mu2 represent the mean values of img1 and img2 respectively.
sigma1_sq and sigma2_sq represent the variances of img1 and img2 respectively.
sigma12 represents the covariance between img1 and img2.
Calculation of SSIM:

The SSIM formula is applied using the computed statistics.
The SSIM value is computed and returned.
This function computes the SSIM value between two input images img1 and img2. It measures the structural similarity
between the images, taking into account luminance, contrast, and structure.

You can use this function to quantify the similarity between two images. Higher SSIM values indicate higher similarity,
with 1 representing perfect similarity.
```

```
In [109]: generated_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_13.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/13.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image_resized = cv2.resize(ground_truth_hr_image, (generated_hr_image.shape[1], generated_hr_image.shape[0]))
ssim_value = calculate_ssim(generated_hr_image, ground_truth_hr_image_resized)
print("SSIM between generated HR image and ground truth HR image:", ssim_value)

SSIM between generated HR image and ground truth HR image: 0.9856879080249447
```

```
In [ ]: #This code snippet loads a generated high-resolution (HR) image and a ground truth high-resolution (HR) image,
#ground truth image to match the dimensions of the generated image, and then calculates the Structural Similarity Index (SSIM) between the two images.
```

```
In [25]: import cv2
import numpy as np

img_lr = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/low_res/13.png', cv2.IMREAD_GRAYSCALE)

img_hr = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_13.png', cv2.IMREAD_GRAYSCALE)
sift = cv2.SIFT_create()
keypoints_lr, descriptors_lr = sift.detectAndCompute(img_lr, None)
keypoints_hr, descriptors_hr = sift.detectAndCompute(img_hr, None)

bf = cv2.BFMatcher()
matches = bf.knnMatch(descriptors_lr, descriptors_hr, k=2)

good_matches = []
for m, n in matches:
    if m.distance < 0.75 * n.distance:
        good_matches.append(m)

num_matched_keypoints = len(good_matches)
print("Number of keypoints matched:", num_matched_keypoints)

Number of keypoints matched: 17
```

```
In [ ]: '''This code snippet uses the SIFT (Scale-Invariant Feature Transform) algorithm to detect keypoints and compute
descriptors for both a low-resolution (LR) image (img_lr) and a generated high-resolution (HR) image (img_hr). Then, it matches
features between the LR and HR images using a brute-force matcher (cv2.BFMatcher()).

Let's break down the code:

Loading Images:

The LR image (img_lr) and HR image (img_hr) are loaded using OpenCV's cv2.imread function with the cv2.IMREAD_GRAYSCALE
flag to load them in grayscale mode.
SIFT Feature Detection and Description:

A SIFT object is created using cv2.SIFT_create().
SIFT keypoints and descriptors are computed for both the LR and HR images using the detectAndCompute method.
Keypoint Matching:

A brute-force matcher (bf) is created using cv2.BFMatcher().
Keypoints and descriptors of the LR and HR images are matched using the knnMatch method with k=2 (to find the 2
nearest neighbors for each keypoint).
Good matches are selected based on the ratio test, where only matches with a distance ratio less than 0.75 are
considered good.
Counting Matched Keypoints:

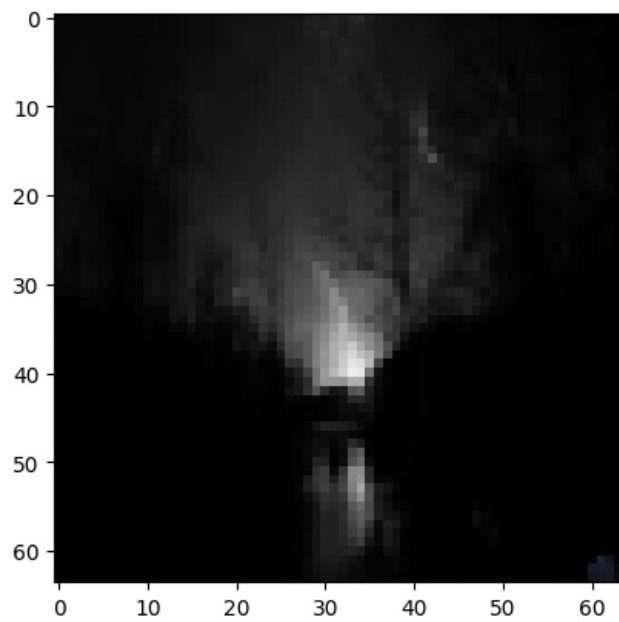
The number of good matches is counted, and the result is printed.
This code snippet provides a quantitative measure of how well corresponding features are matched between the LR
and HR images. The number of matched keypoints indicates the degree of similarity or alignment between the LR and HR images.
Higher numbers of matched keypoints generally suggest better alignment.'''
```

```
In [26]: #Load and plot the 14 th LR image
img_path_14 = 'C:/Users/student/Desktop/dataset/Raw Data/low_res/14.png'
img_14 = cv2.imread(img_path_14)
```

```
img_14 = cv2.cvtColor(img_14, cv2.COLOR_BGR2RGB)
img_14 = img_14/255.
img_14 = img_14.astype('float32')
print('The shape of the image is',img_14.shape)
plt.imshow(img_14)
```

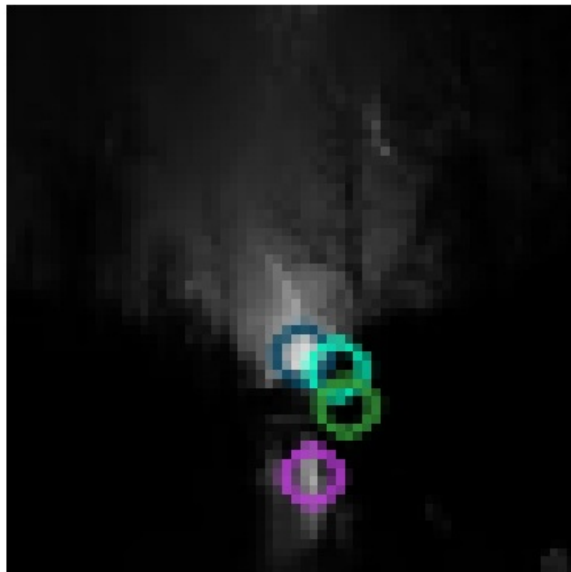
The shape of the image is (64, 64, 3)
 <matplotlib.image.AxesImage at 0x1ee7f80cca0>

Out[26]:



In [31]: `sift(img_path_14)#apply SIFT to LR image`

Out[31]: ('Number of Keypoints in this image are', 4)

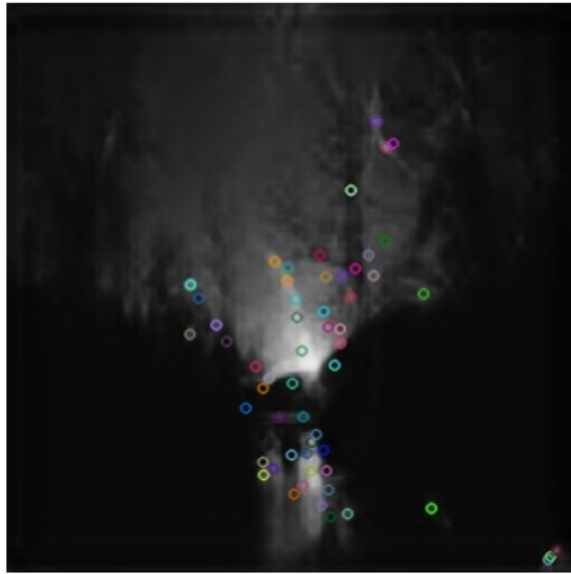


```
In [32]: in_img_14 = np.expand_dims(img_14,axis=0)#generate the 14th HR image using g_model
b = g_model.predict(in_img_14)
b = np.squeeze(b,axis=0)
plt.imshow(b)
plt.axis('off')
plt.savefig('C:/Users/student/Desktop/dataset/generated_HR_14', bbox_inches='tight', pad_inches=0) # Save the
plt.close()
```

1/1 [=====] - 0s 14ms/step

In [33]: `path_14 = "C:/Users/student/Desktop/dataset/generated_HR_14.png"`
`sift(path_14)#apply SIFT to the generated 14th HR image`

Out[33]: ('Number of Keypoints in this image are', 65)



```
In [34]: def calculate_psnr(original_img, processed_img, max_pixel_value):#calculate PSNR value
mse = np.mean((original_img - processed_img) ** 2)
psnr = 10 * np.log10((max_pixel_value ** 2) / mse)
return psnr

original_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/14.png', cv2.IMREAD_GRAYSCALE)
processed_image = cv2.imread("C:/Users/student/Desktop/dataset/generated_HR_14.png", cv2.IMREAD_GRAYSCALE)
original_image = cv2.resize(original_image, (processed_image.shape[1], processed_image.shape[0]))
original_image = original_image.astype(np.float64)
processed_image = processed_image.astype(np.float64)
max_pixel_value = 255
psnr = calculate_psnr(original_image, processed_image, max_pixel_value)

print("The PSNR value between the original image and processed image is:", psnr, "dB")
```

The PSNR value between the original image and processed image is: 27.385943270353103 dB

```
In [110]: generated_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_14.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/14.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image_resized = cv2.resize(ground_truth_hr_image, (generated_hr_image.shape[1], generated_hr_image.shape[0]))
ssim_value = calculate_ssim(generated_hr_image, ground_truth_hr_image_resized)
print("SSIM between generated HR image and ground truth HR image:", ssim_value)
```

SSIM between generated HR image and ground truth HR image: 0.8837812526794573

```
In [35]: import cv2
import numpy as np

img_lr = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/low_res/14.png', cv2.IMREAD_GRAYSCALE)

img_hr = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_14.png', cv2.IMREAD_GRAYSCALE)
sift = cv2.SIFT_create()
keypoints_lr, descriptors_lr = sift.detectAndCompute(img_lr, None)
keypoints_hr, descriptors_hr = sift.detectAndCompute(img_hr, None)

bf = cv2.BFMatcher()
matches = bf.knnMatch(descriptors_lr, descriptors_hr, k=2)

good_matches = []
for m, n in matches:
    if m.distance < 0.75 * n.distance:
        good_matches.append(m)

num_matched_keypoints = len(good_matches)
print("Number of keypoints matched:", num_matched_keypoints)
```

Number of keypoints matched: 3

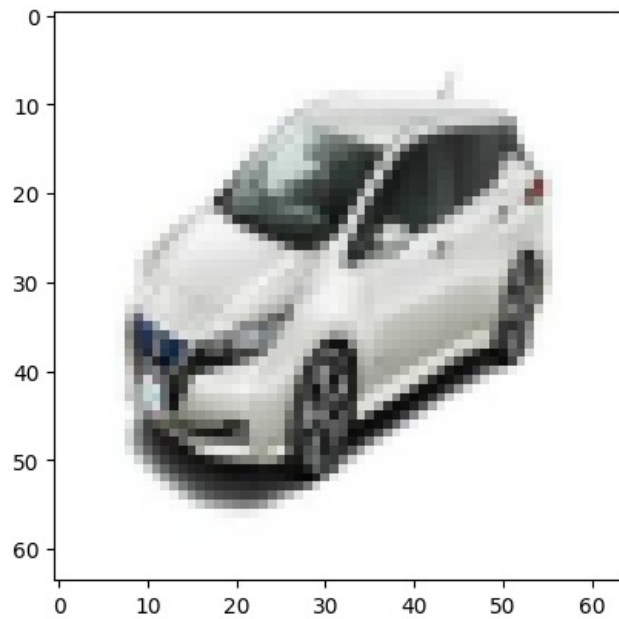
```
In [36]: img_path_16 = 'C:/Users/student/Desktop/dataset/Raw Data/low_res/16.png'
img_16 = cv2.imread(img_path_16)
img_16 = cv2.cvtColor(img_16, cv2.COLOR_BGR2RGB)
img_16 = img_16/255.
img_16 = img_16.astype('float32')
print('The shape of the image is',img_16.shape)
```

```
plt.imshow(img_16)
```

The shape of the image is (64, 64, 3)

```
<matplotlib.image.AxesImage at 0x1ee4ce87790>
```

Out[36]:



```
In [39]: sift(img_path_16)
```

Out[39]: ('Number of Keypoints in this image are', 31)



```
In [40]: in_img_16 = np.expand_dims(img_16,axis=0)
c = g_model.predict(in_img_16)
c = np.squeeze(c,axis=0)
plt.imshow(c)
plt.axis('off')
plt.savefig('C:/Users/student/Desktop/dataset/generated_HR_16', bbox_inches='tight', pad_inches=0) # Save the
plt.close()
```

1/1 [=====] - 0s 15ms/step

```
In [41]: path_16 = "C:/Users/student/Desktop/dataset/generated_HR_16.png"
sift(path_16)
```

Out[41]: ('Number of Keypoints in this image are', 354)



```
In [42]: def calculate_psnr(original_img, processed_img, max_pixel_value):
mse = np.mean((original_img - processed_img) ** 2)
psnr = 10 * np.log10((max_pixel_value ** 2) / mse)
return psnr

original_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/16.png', cv2.IMREAD_GRAYSCALE)
processed_image = cv2.imread("C:/Users/student/Desktop/dataset/generated_HR_16.png", cv2.IMREAD_GRAYSCALE)
original_image = cv2.resize(original_image, (processed_image.shape[1], processed_image.shape[0]))
original_image = original_image.astype(np.float64)
processed_image = processed_image.astype(np.float64)
max_pixel_value = 255
psnr = calculate_psnr(original_image, processed_image, max_pixel_value)

print("The PSNR value between the original image and processed image is:", psnr, "dB")
```

The PSNR value between the original image and processed image is: 24.58003036540086 dB

```
In [111]: generated_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_16.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/16.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image_resized = cv2.resize(ground_truth_hr_image, (generated_hr_image.shape[1], generated_hr_image.shape[0]))
ssim_value = calculate_ssim(generated_hr_image, ground_truth_hr_image_resized)
print("SSIM between generated HR image and ground truth HR image:", ssim_value)
```

SSIM between generated HR image and ground truth HR image: 0.9863751842828165

```
In [43]: import cv2
import numpy as np

img_lr = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/low_res/16.png', cv2.IMREAD_GRAYSCALE)
img_hr = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_16.png', cv2.IMREAD_GRAYSCALE)
sift = cv2.SIFT_create()
keypoints_lr, descriptors_lr = sift.detectAndCompute(img_lr, None)
keypoints_hr, descriptors_hr = sift.detectAndCompute(img_hr, None)

bf = cv2.BFMatcher()
matches = bf.knnMatch(descriptors_lr, descriptors_hr, k=2)

good_matches = []
for m, n in matches:
    if m.distance < 0.75 * n.distance:
        good_matches.append(m)

num_matched_keypoints = len(good_matches)
print("Number of keypoints matched:", num_matched_keypoints)
```

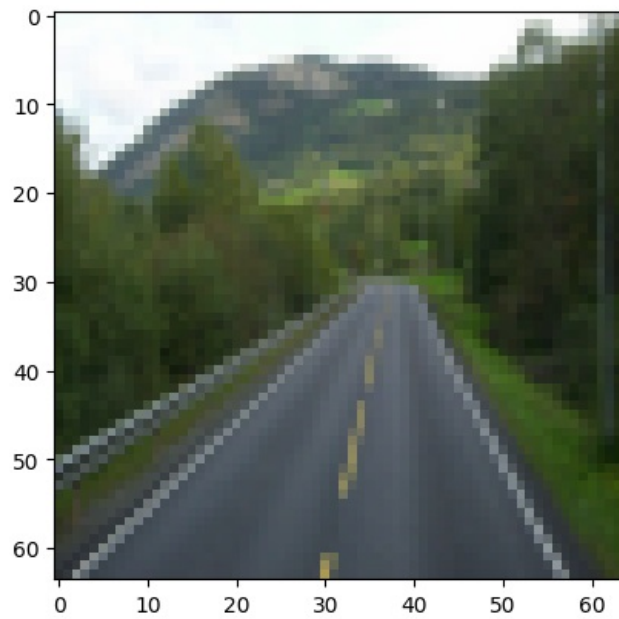
Number of keypoints matched: 23

```
In [45]: img_path_171 = 'C:/Users/student/Desktop/dataset/Raw Data/low_res/171.png'
img_171 = cv2.imread(img_path_171)
img_171 = cv2.cvtColor(img_171, cv2.COLOR_BGR2RGB)
```

```
img_171 = img_171/255.
img_171 = img_171.astype('float32')
print('The shape of the image is',img_171.shape)
plt.imshow(img_171)
```

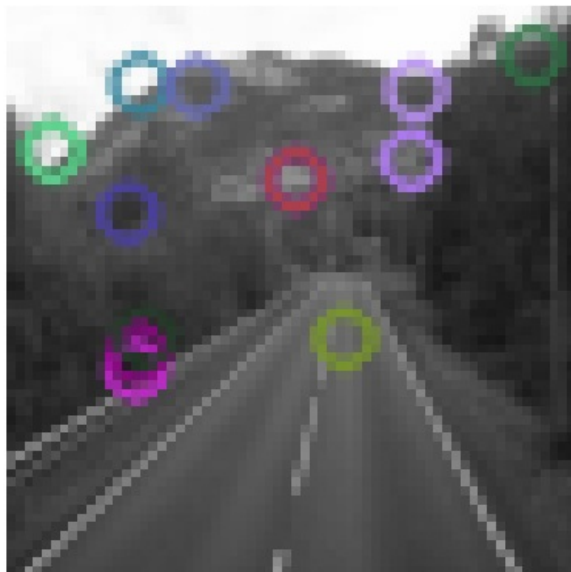
The shape of the image is (64, 64, 3)

Out[45]: <matplotlib.image.AxesImage at 0x1f13f254ca0>



In [48]: sift(img_path_171)

Out[48]: ('Number of Keypoints in this image are', 14)

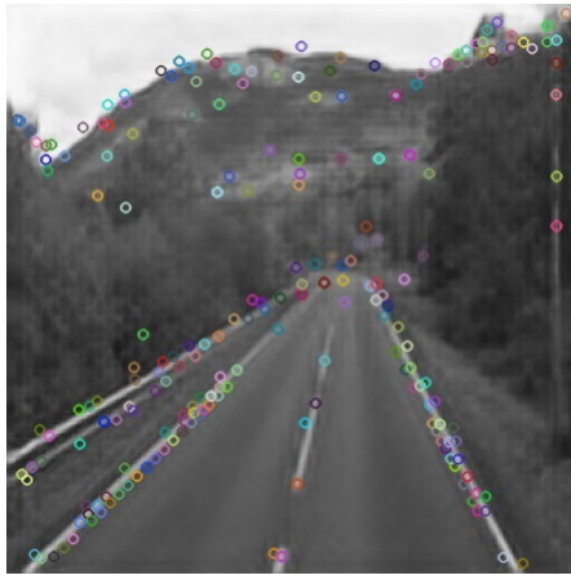


```
In [49]: in_img_171 = np.expand_dims(img_171,axis=0)
c = g_model.predict(in_img_171)
c = np.squeeze(c,axis=0)
plt.imshow(c)
plt.axis('off')
plt.savefig('C:/Users/student/Desktop/dataset/generated_HR_171', bbox_inches='tight', pad_inches=0) # Save the
plt.close()
```

1/1 [=====] - 0s 17ms/step

```
In [50]: path_171 = "C:/Users/student/Desktop/dataset/generated_HR_171.png"
sift(path_171)
```

Out[50]: ('Number of Keypoints in this image are', 240)



```
In [51]: def calculate_psnr(original_img, processed_img, max_pixel_value):
mse = np.mean((original_img - processed_img) ** 2)
psnr = 10 * np.log10((max_pixel_value ** 2) / mse)
return psnr

original_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/171.png', cv2.IMREAD_GRAYSCALE)
processed_image = cv2.imread("C:/Users/student/Desktop/dataset/generated_HR_171.png", cv2.IMREAD_GRAYSCALE)
original_image = cv2.resize(original_image, (processed_image.shape[1], processed_image.shape[0]))
original_image = original_image.astype(np.float64)
processed_image = processed_image.astype(np.float64)
max_pixel_value = 255
psnr = calculate_psnr(original_image, processed_image, max_pixel_value)

print("The PSNR value between the original image and processed image is:", psnr, "dB")
```

The PSNR value between the original image and processed image is: 26.04971422802578 dB

```
In [113]: generated_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_171.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/171.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image_resized = cv2.resize(ground_truth_hr_image, (generated_hr_image.shape[1], generated_hr_image.shape[0]))
ssim_value = calculate_ssim(generated_hr_image, ground_truth_hr_image_resized)
print("SSIM between generated HR image and ground truth HR image:", ssim_value)
```

SSIM between generated HR image and ground truth HR image: 0.9792410640644867

```
In [52]: import cv2
import numpy as np

img_lr = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/low_res/171.png', cv2.IMREAD_GRAYSCALE)

img_hr = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_171.png', cv2.IMREAD_GRAYSCALE)
sift = cv2.SIFT_create()
keypoints_lr, descriptors_lr = sift.detectAndCompute(img_lr, None)
keypoints_hr, descriptors_hr = sift.detectAndCompute(img_hr, None)

bf = cv2.BFMatcher()
matches = bf.knnMatch(descriptors_lr, descriptors_hr, k=2)

good_matches = []
for m, n in matches:
    if m.distance < 0.75 * n.distance:
        good_matches.append(m)

num_matched_keypoints = len(good_matches)
print("Number of keypoints matched:", num_matched_keypoints)
```

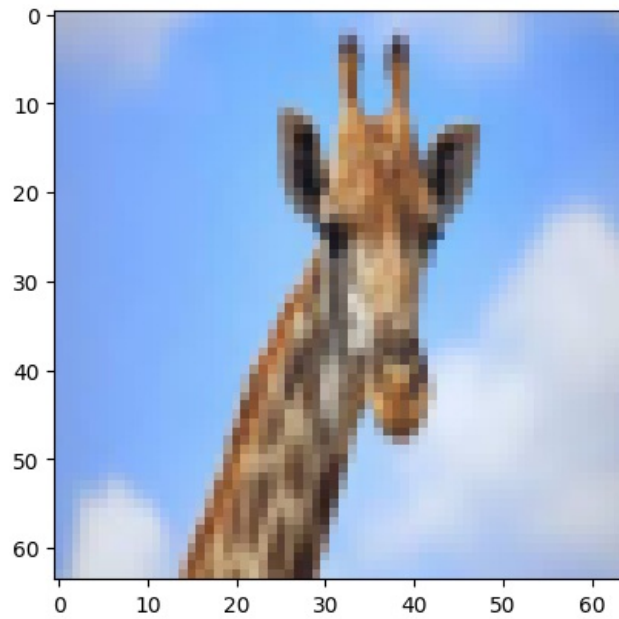
Number of keypoints matched: 13

```
In [53]: img_path_543 = 'C:/Users/student/Desktop/dataset/Raw Data/low_res/543.png'
img_543 = cv2.imread(img_path_543)
img_543 = cv2.cvtColor(img_543, cv2.COLOR_BGR2RGB)
img_543 = img_543/255.
img_543 = img_543.astype('float32')
```

```
print('The shape of the image is',img_543.shape)
plt.imshow(img_543)
```

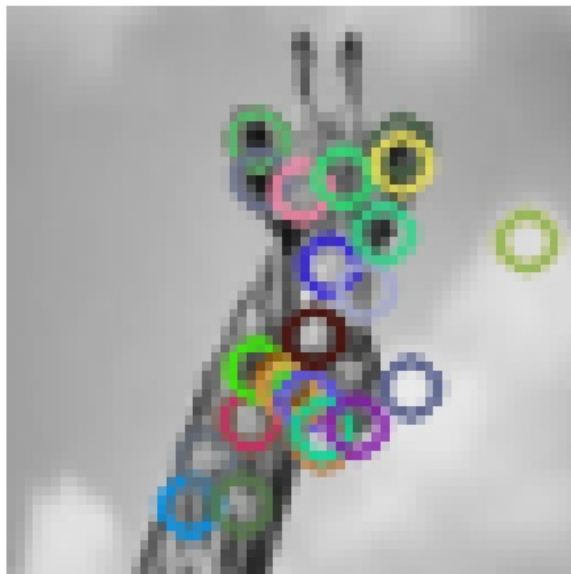
The shape of the image is (64, 64, 3)
<matplotlib.image.AxesImage at 0x1ee6d226f40>

Out[53]:



```
In [56]: sift(img_path_543)
```

Out[56]: ('Number of Keypoints in this image are', 28)



```
In [57]: in_img_543 = np.expand_dims(img_543,axis=0)
d = g_model.predict(in_img_543)
d = np.squeeze(d,axis=0)
plt.imshow(d)
plt.axis('off')
plt.savefig('C:/Users/student/Desktop/dataset/generated_HR_543', bbox_inches='tight', pad_inches=0) # Save the
plt.close()
```

1/1 [=====] - 0s 13ms/step

```
In [58]: path_543 = "C:/Users/student/Desktop/dataset/generated_HR_543.png"
sift(path_543)
```

Out[58]: ('Number of Keypoints in this image are', 259)



```
In [59]: def calculate_psnr(original_img, processed_img, max_pixel_value):
mse = np.mean((original_img - processed_img) ** 2)
psnr = 10 * np.log10((max_pixel_value ** 2) / mse)
return psnr

original_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/543.png', cv2.IMREAD_GRAYSCALE)
processed_image = cv2.imread("C:/Users/student/Desktop/dataset/generated_HR_543.png", cv2.IMREAD_GRAYSCALE)
original_image = cv2.resize(original_image, (processed_image.shape[1], processed_image.shape[0]))
original_image = original_image.astype(np.float64)
processed_image = processed_image.astype(np.float64)
max_pixel_value = 255
psnr = calculate_psnr(original_image, processed_image, max_pixel_value)

print("The PSNR value between the original image and processed image is:", psnr, "dB")
```

The PSNR value between the original image and processed image is: 25.517713288395726 dB

```
In [114]: generated_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_543.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/543.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image_resized = cv2.resize(ground_truth_hr_image, (generated_hr_image.shape[1], generated_hr_image.shape[0]))
ssim_value = calculate_ssim(generated_hr_image, ground_truth_hr_image_resized)
print("SSIM between generated HR image and ground truth HR image:", ssim_value)
```

SSIM between generated HR image and ground truth HR image: 0.9674866184987523

```
In [60]: import cv2
import numpy as np

img_lr = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/low_res/543.png', cv2.IMREAD_GRAYSCALE)

img_hr = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_543.png', cv2.IMREAD_GRAYSCALE)
sift = cv2.SIFT_create()
keypoints_lr, descriptors_lr = sift.detectAndCompute(img_lr, None)
keypoints_hr, descriptors_hr = sift.detectAndCompute(img_hr, None)

bf = cv2.BFMatcher()
matches = bf.knnMatch(descriptors_lr, descriptors_hr, k=2)

good_matches = []
for m, n in matches:
    if m.distance < 0.75 * n.distance:
        good_matches.append(m)

num_matched_keypoints = len(good_matches)
print("Number of keypoints matched:", num_matched_keypoints)
```

Number of keypoints matched: 23

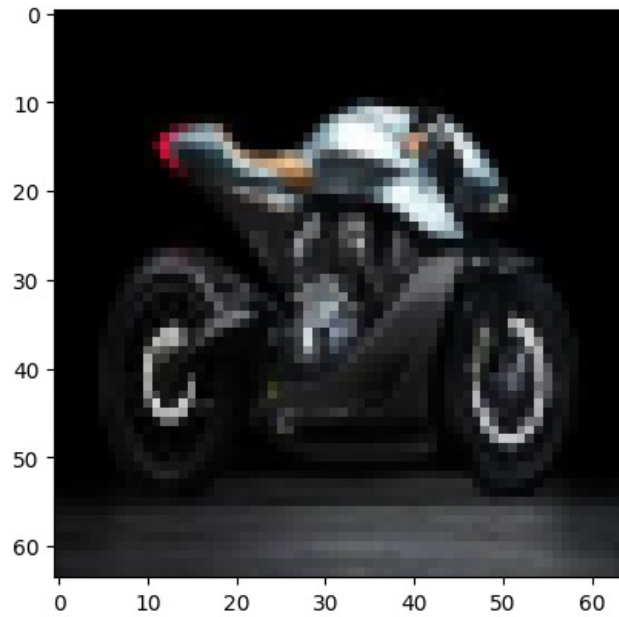
```
In [86]: img_path_10 = 'C:/Users/student/Desktop/dataset/Raw Data/low_res/10.png'
img_10 = cv2.imread(img_path_10)
img_10 = cv2.cvtColor(img_10, cv2.COLOR_BGR2RGB)
```



```
img_10 = img_10/255.
img_10 = img_10.astype('float32')
print('The shape of the image is',img_10.shape)
plt.imshow(img_10)
```

The shape of the image is (64, 64, 3)
 <matplotlib.image.AxesImage at 0x1f1f3ec8190>

Out[86]:



In [89]: sift(img_path_10)

Out[89]: ('Number of Keypoints in this image are', 38)



```
In [90]: in_img_10 = np.expand_dims(img_10,axis=0)
d = g_model.predict(in_img_10)
d = np.squeeze(d,axis=0)
plt.imshow(d)
plt.axis('off')
plt.savefig('C:/Users/student/Desktop/dataset/generated_HR_10', bbox_inches='tight', pad_inches=0) # Save the
plt.close()
```

1/1 [=====] - 0s 15ms/step

```
In [91]: path_543 = "C:/Users/student/Desktop/dataset/generated_HR_10.png"
sift(path_543)
```

Out[91]: ('Number of Keypoints in this image are', 322)



```
In [92]: def calculate_psnr(original_img, processed_img, max_pixel_value):
mse = np.mean((original_img - processed_img) ** 2)
psnr = 10 * np.log10((max_pixel_value ** 2) / mse)
return psnr

original_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/10.png', cv2.IMREAD_GRAYSCALE)
processed_image = cv2.imread("C:/Users/student/Desktop/dataset/generated_HR_10.png", cv2.IMREAD_GRAYSCALE)
original_image = cv2.resize(original_image, (processed_image.shape[1], processed_image.shape[0]))
original_image = original_image.astype(np.float64)
processed_image = processed_image.astype(np.float64)
max_pixel_value = 255
psnr = calculate_psnr(original_image, processed_image, max_pixel_value)

print("The PSNR value between the original image and processed image is:", psnr, "dB")
```

The PSNR value between the original image and processed image is: 24.81837466346962 dB

```
In [115]: generated_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_10.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/high_res/10.png', cv2.IMREAD_GRAYSCALE)
ground_truth_hr_image_resized = cv2.resize(ground_truth_hr_image, (generated_hr_image.shape[1], generated_hr_image.shape[0]))
ssim_value = calculate_ssim(generated_hr_image, ground_truth_hr_image_resized)
print("SSIM between generated HR image and ground truth HR image:", ssim_value)
```

SSIM between generated HR image and ground truth HR image: 0.9391832851854323

```
In [105]: import cv2
import numpy as np

img_lr = cv2.imread('C:/Users/student/Desktop/dataset/Raw Data/low_res/10.png', cv2.IMREAD_GRAYSCALE)

img_hr = cv2.imread('C:/Users/student/Desktop/dataset/generated_HR_10.png', cv2.IMREAD_GRAYSCALE)
sift = cv2.SIFT_create()
keypoints_lr, descriptors_lr = sift.detectAndCompute(img_lr, None)
keypoints_hr, descriptors_hr = sift.detectAndCompute(img_hr, None)

bf = cv2.BFMatcher()
matches = bf.knnMatch(descriptors_lr, descriptors_hr, k=2)

good_matches = []
for m, n in matches:
    if m.distance < 0.75 * n.distance:
        good_matches.append(m)

num_matched_keypoints = len(good_matches)
print("Number of keypoints matched:", num_matched_keypoints)
```

Number of keypoints matched: 31

In []:

In []:

In []:

