

```
In [1]: !python -m pip install --upgrade pip setuptools wheel
```

```
Requirement already satisfied: pip in c:\users\asus\downloads\conda ass\lib
\site-packages (23.2.1)
Collecting pip
  Obtaining dependency information for pip from https://files.pythonhosted.org/packages/29/a2/d40fb2460e883eca5199c62cfc2463fd261f760556ae6290f88488c362c0/pip-25.1.1-py3-none-any.whl.metadata (https://files.pythonhosted.org/packages/29/a2/d40fb2460e883eca5199c62cfc2463fd261f760556ae6290f88488c362c0/pip-25.1.1-py3-none-any.whl.metadata)
  Using cached pip-25.1.1-py3-none-any.whl.metadata (3.6 kB)
Requirement already satisfied: setuptools in c:\users\asus\downloads\conda a
ss\lib\site-packages (68.0.0)
Collecting setuptools
  Obtaining dependency information for setuptools from https://files.pythonh
osted.org/packages/a3/dc/17031897dae0efacfea57dfd3a82fdd2a2aeb58e0ff71b77b87e44edc772/setuptools-80.9.0-py3-none-any.whl.metadata (https://files.pythonh
osted.org/packages/a3/dc/17031897dae0efacfea57dfd3a82fdd2a2aeb58e0ff71b77b87e44edc772/setuptools-80.9.0-py3-none-any.whl.metadata)
  Using cached setuptools-80.9.0-py3-none-any.whl.metadata (6.6 kB)
Requirement already satisfied: wheel in c:\users\asus\downloads\conda ass\li
b\site-packages (0.38.4)
Collecting wheel
  Obtaining dependency information for wheel from https://files.pythonhoste
d.org/packages/0b/2c/87f3254fd8fffd29e4c02732eee68a83a1d3c346ae39bc6822dcbcb697f2b/wheel-0.45.1-py3-none-any.whl.metadata (https://files.pythonhosted.or
g/packages/0b/2c/87f3254fd8fffd29e4c02732eee68a83a1d3c346ae39bc6822dcbcb697f2b/wheel-0.45.1-py3-none-any.whl.metadata)
  Using cached wheel-0.45.1-py3-none-any.whl.metadata (2.3 kB)
Using cached pip-25.1.1-py3-none-any.whl (1.8 MB)
Using cached setuptools-80.9.0-py3-none-any.whl (1.2 MB)
Using cached wheel-0.45.1-py3-none-any.whl (72 kB)
Installing collected packages: wheel, setuptools, pip
  Attempting uninstall: wheel
    Found existing installation: wheel 0.38.4
    Uninstalling wheel-0.38.4:
      Successfully uninstalled wheel-0.38.4
  Attempting uninstall: setuptools
    Found existing installation: setuptools 68.0.0
    Uninstalling setuptools-68.0.0:
      Successfully uninstalled setuptools-68.0.0
  Attempting uninstall: pip
    Found existing installation: pip 23.2.1
    Uninstalling pip-23.2.1:
      Successfully uninstalled pip-23.2.1
Successfully installed pip-25.1.1 setuptools-80.9.0 wheel-0.45.1

ERROR: pip's dependency resolver does not currently take into account all th
e packages that are installed. This behaviour is the source of the following
dependency conflicts.
conda-repo-cli 1.0.41 requires requests_mock, which is not installed.
conda-repo-cli 1.0.41 requires clyent==1.2.1, but you have clyent 1.2.2 whic
h is incompatible.
conda-repo-cli 1.0.41 requires nbformat==5.4.0, but you have nbformat 5.7.0
which is incompatible.
conda-repo-cli 1.0.41 requires requests==2.28.1, but you have requests 2.31.
0 which is incompatible.
```

```
In [1]: pip install opencv-python
```

```
Collecting opencv-python
```

```
  Downloading opencv_python-4.12.0.88-cp37-abi3-win_amd64.whl.metadata (19 kB)
```

```
Collecting numpy<2.3.0,>=2 (from opencv-python)
```

```
  Downloading numpy-2.2.6-cp311-cp311-win_amd64.whl.metadata (60 kB)
```

```
Downloading opencv_python-4.12.0.88-cp37-abi3-win_amd64.whl (39.0 MB)
```

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```

```

In [1]: import cv2
import matplotlib.pyplot as plt

# Load the image
image = cv2.imread('sample.jpg') # Replace 'sample.jpg' with your image file
image_rgb = cv2.cvtColor(image, cv2.COLOR_BGR2RGB) # Convert to RGB for display

# Display Original Image
plt.figure(figsize=(6, 6))
plt.title("Original Image")
plt.imshow(image_rgb)
plt.axis('off')
plt.show()

# Apply Gaussian Blur
blurred_image = cv2.GaussianBlur(image, (15, 15), 0) # Kernel size must be odd

# Convert to RGB for displaying
blurred_rgb = cv2.cvtColor(blurred_image, cv2.COLOR_BGR2RGB)

# Display Blurred Image
plt.figure(figsize=(6, 6))
plt.title("Blurred Image")
plt.imshow(blurred_rgb)
plt.axis('off')
plt.show()

```

A module that was compiled using NumPy 1.x cannot be run in NumPy 2.2.6 as it may crash. To support both 1.x and 2.x versions of NumPy, modules must be compiled with NumPy 2.0. Some module may need to rebuild instead e.g. with 'pybind11>=2.12'.

If you are a user of the module, the easiest solution will be to downgrade to 'numpy<2' or try to upgrade the affected module. We expect that some modules will need time to support NumPy 2.

```

Traceback (most recent call last): File "<frozen runpy>", line 198, in _run_module_as_main
  File "<frozen runpy>", line 88, in _run_code
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\ipykernel_launcher.py", line 17, in <module>
    app.launch_new_instance()
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 992, in launch_instance
    app.start()
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 970, in start
    self._start()
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 950, in _start
    self._load_config_file()
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 930, in _load_config_file
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 910, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 890, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 870, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 850, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 830, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 810, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 790, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 770, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 750, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 730, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 710, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 690, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 670, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 650, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 630, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 610, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 590, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 570, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 550, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 530, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 510, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 490, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 470, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 450, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 430, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 410, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 390, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 370, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 350, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 330, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 310, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 290, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 270, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 250, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 230, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 210, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 190, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 170, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 150, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 130, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 110, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 90, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 70, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 50, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 30, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 10, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)
  File "C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\traitlets\config\application.py", line 0, in _load_config_file_from_path
    self._load_config_file_from_path(config_file)

```

```
In [1]: !pip install numpy==1.24.4 --force-reinstall
```

Collecting numpy==1.24.4

Downloading numpy-1.24.4-cp311-cp311-win_amd64.whl.metadata (5.6 kB)

Downloading numpy-1.24.4-cp311-cp311-win_amd64.whl (14.8 MB)

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----- 14.8/14.8 MB 2.3 MB/s eta 0:00:0
0
```

Installing collected packages: numpy

Attempting uninstall: numpy

Found existing installation: numpy 2.2.6

Uninstalling numpy-2.2.6:

Successfully uninstalled numpy-2.2.6

Successfully installed numpy-1.24.4

WARNING: Failed to remove contents in a temporary directory 'C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\~umpy.libs'.

You can safely remove it manually.

WARNING: Failed to remove contents in a temporary directory 'C:\Users\ASUS\Downloads\conda ass\Lib\site-packages\~umpy'.

You can safely remove it manually.

ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the source of the following dependency conflicts.

gensim 4.3.0 requires FuzzyTM>=0.4.0, which is not installed.

tables 3.8.0 requires blosc2~=2.0.0, which is not installed.

tables 3.8.0 requires cython>=0.29.21, which is not installed.

transformers 2.1.1 requires sentencepiece, which is not installed.

opencv-python 4.12.0.88 requires numpy<2.3.0,>=2; python_version >= "3.9", but you have numpy 1.24.4 which is incompatible.

```
In [2]: pip install numpy==1.24.4 --force-reinstall
```

Collecting numpy==1.24.4
Note: you may need to restart the kernel to use updated packages.

Using cached numpy-1.24.4-cp311-cp311-win_amd64.whl.metadata (5.6 kB)

Using cached numpy-1.24.4-cp311-cp311-win_amd64.whl (14.8 MB)

Installing collected packages: numpy

Attempting uninstall: numpy

Found existing installation: numpy 1.24.4

Uninstalling numpy-1.24.4:

Successfully uninstalled numpy-1.24.4

Successfully installed numpy-1.24.4

ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the source of the following dependency conflicts.

gensim 4.3.0 requires FuzzyTM>=0.4.0, which is not installed.

tables 3.8.0 requires blosc2~=2.0.0, which is not installed.

tables 3.8.0 requires cython>=0.29.21, which is not installed.

transformers 2.1.1 requires sentencepiece, which is not installed.

opencv-python 4.12.0.88 requires numpy<2.3.0,>=2; python_version >= "3.9", but you have numpy 1.24.4 which is incompatible.

```
In [10]: import cv2
import matplotlib.pyplot as plt

# Load the image
image = cv2.imread('sample.jpg') # Replace 'sample.jpg' with your image file
image_rgb = cv2.cvtColor(image, cv2.COLOR_BGR2RGB) # Convert to RGB for display

# Display Original Image
plt.figure(figsize=(6, 6))
plt.title("Original Image")
plt.imshow(image_rgb)
plt.axis('off')
plt.show()

# Apply Gaussian Blur
blurred_image = cv2.GaussianBlur(image, (45, 45), 30) # Kernel size must be odd

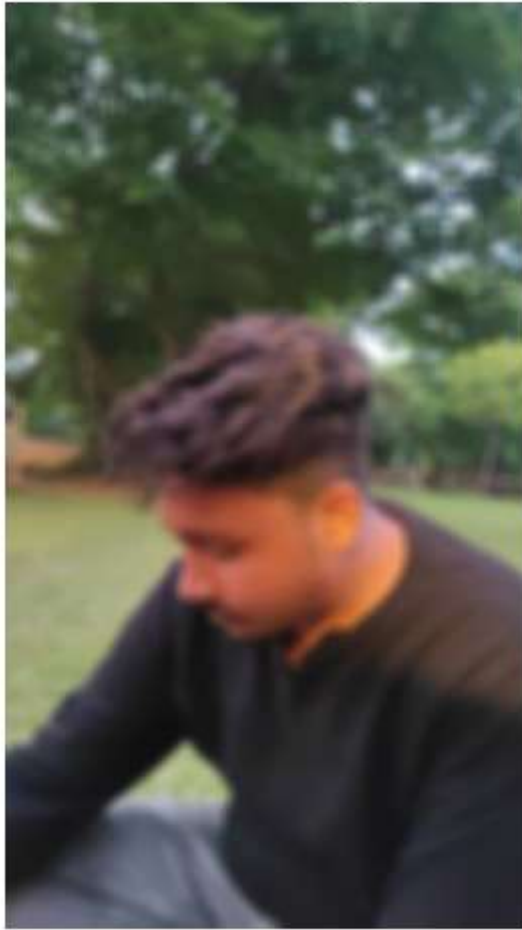
# Convert to RGB for displaying
blurred_rgb = cv2.cvtColor(blurred_image, cv2.COLOR_BGR2RGB)

# Display Blurred Image
plt.figure(figsize=(6, 6))
plt.title("Blurred Image")
plt.imshow(blurred_rgb)
plt.axis('off')
plt.show()
```

Original Image



Blurred Image



In []: