

Lab_06_21_27_19_DS

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M.Tech: Data Science

```
[13]: import numpy as np
import matplotlib.pyplot as plt
import cv2
```

```
[26]: img = cv2.imread(r"C:\Users\saura\Desktop\Ongoing\Notes\01.
↳LAB_ass\Computer_vision_basics\Images\bullet.jpg")
img2 = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)

plt.figure(figsize = (5,10))
plt.imshow(img2)
```

```
[26]: <matplotlib.image.AxesImage at 0x193f0c47910>
```



Kernel

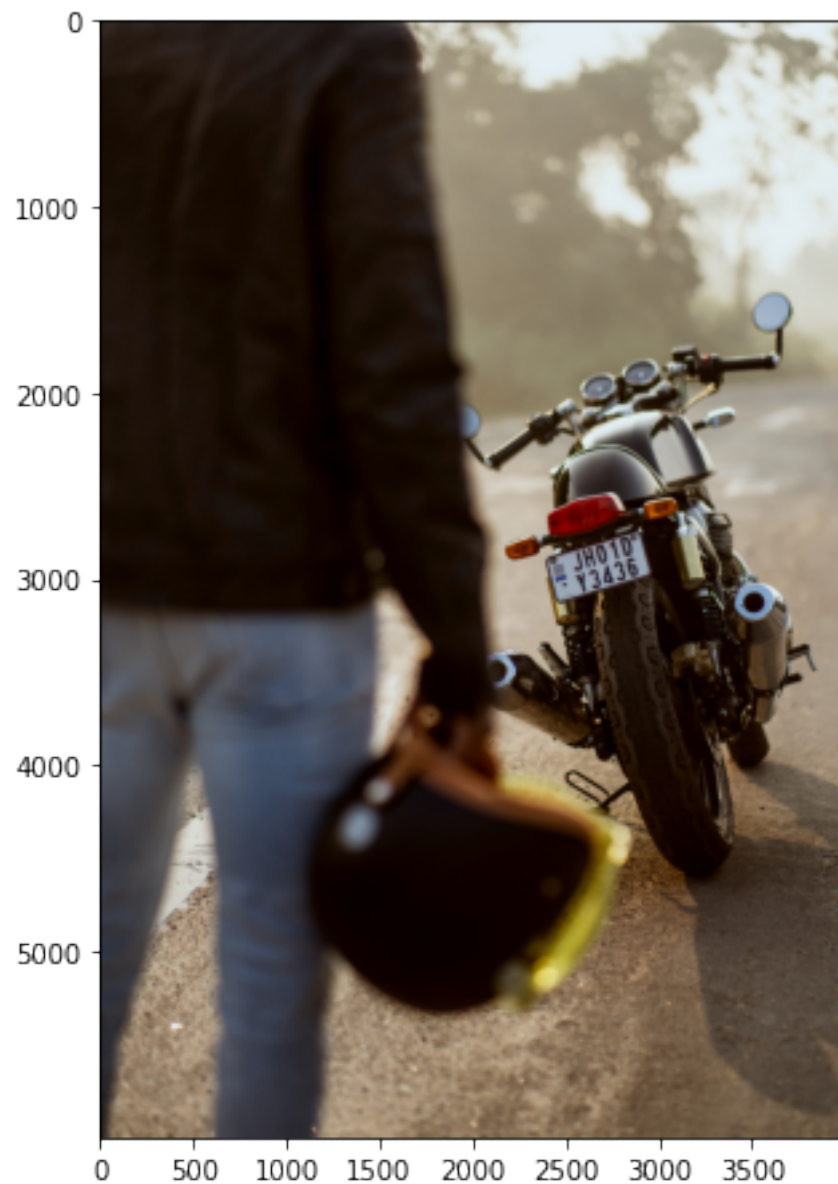
```
[22]: kernel = np.ones((5,5))
```

Erosion

```
[27]: image_erode = cv2.erode(img2, kernel)

plt.figure(figsize = (5,10))
plt.imshow(image_erode)
```

[27]: <matplotlib.image.AxesImage at 0x193f0da5430>



Dilation

```
[30]: img_dilation = cv2.dilate(img2, kernel, iterations = 1)

plt.figure(figsize = (5,10))
plt.imshow(img_dilation)
```

[30]: <matplotlib.image.AxesImage at 0x193f0a7a1c0>



Opening

```
[31]: opening = cv2.morphologyEx(img2, cv2.MORPH_OPEN, kernel)

plt.figure(figsize = (5,10))
plt.imshow(opening)
```

```
[31]: <matplotlib.image.AxesImage at 0x193f0e29820>
```



Closing

```
[32]: closing = cv2.morphologyEx(img2, cv2.MORPH_CLOSE, kernel)

plt.figure(figsize = (5,10))
plt.imshow(image_erode)
```

```
[32]: <matplotlib.image.AxesImage at 0x193f0b837f0>
```

