

Coding Sathi Data Science Internship- July 2023

Level-1 Task-4 Image to Pencil Sketch with Python

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```
In [8]: import cv2
```

```
In [9]: image_path = r"C:\Users\admin_a\OneDrive\Documents\viveks img.jpg"
image = cv2.imread(image_path)
cv2.imshow("Vivek", image)
cv2.waitKey(0)
```

```
Out[9]: -1
```

```
In [10]: gray_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
cv2.imshow("New ", gray_image)
cv2.waitKey(0)
```

```
Out[10]: -1
```

```
In [11]: inverted_image = 255 - gray_image
cv2.imshow("Inverted", inverted_image)
cv2.waitKey()
```

```
Out[11]: -1
```

```
In [12]: blurred = cv2.GaussianBlur(inverted_image, (21, 21), 0)
```

```
In [13]: inverted_blurred = 255 - blurred
pencil_sketch = cv2.divide(gray_image, inverted_blurred, scale=256.0)
cv2.imshow("Sketch", pencil_sketch)
cv2.waitKey(0)
```

```
Out[13]: -1
```

```
In [7]: cv2.imshow("original image", image)
cv2.imshow("pencil sketch", pencil_sketch)
cv2.waitKey(0)
```

```
Out[7]: -1
```

```
In [14]: cv2.imwrite("sketch.jpg", pencil_sketch)
```

```
Out[14]: True
```

```
In [ ]:
```