Shri Vile Parle Kelavani Mandal's
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC Accredited with "A" Grade (CGPA : 3.18)

Department of Computer Science and Engineering (Data Science)

Subject: Image Processing and Computer Vision - II Laboratory (DJ19DSL702)

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Experiment 4

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(OCR for Text Recognition)

Aim: Identify text from images using OCR

Lab Assignments to complete in this session:

Dataset: Use sample images containing text.

The steps involved in the experiment are as follows:

1. Import Tesseract OCR and relevant libraries.

2. Apply Tesseract on the sample images.

Code:

```
!sudo apt install tesseract-ocr
!sudo apt install libtesseract-dev


!pip install pytesseract
!pip install Pillow


import pytesseract
from PIL import Image
import matplotlib.pyplot as plt
```

```
# If Tesseract is not in your PATH, specify the full path to the
executable
# pytesseract.pytesseract.tesseract_cmd = r'C:\Program
Files\Tesseract-OCR\tesseract.exe'

# Load the image from file
image_path = '/content/note.jpg'
image = Image.open(image_path)

# Perform OCR on the image
text = pytesseract.image_to_string(image)

# Print the extracted text
print(text)

# Display the image
plt.imshow(image)
plt.axis('off')  # Hide the axis
plt.show()
```

output;

```
How +0 Use This Handwriting Changes?
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handwriting with this oo:

Tyee 0 copy paste youn content tn the Input
Feld.

Or, jour can dinmectth y upload a Fite Fxom yout
dev.ice's Local storage.

Select the output settings forom the optlons
dlven below the Input Filet.

CLick On the "Downtoad PNG' button +0 save the
converted text +0 yout device.
```