# OCR Application Documentation

# This is an OCR ( Optical Character Recognition ) - GUI application which can detect text from pictures into a readable format.

# Installation

### These are the prerequisites for using the OCR application.

* **Python 3.7 :** <https://www.python.org/downloads/>
* **Numpy package :** use command pip install numpy
* **OpenCV library :** use command pip install opencv-python
* **Tesseract OCR library :** <https://tesseract-ocr.github.io/tessdoc/Home.html>
* **Tkinter library**

After meeting the above requirements , download OCR.py from OCR app folder.

Open command prompt ( for windows ) / terminal ( for Mac) .Change the directory to where you have downloaded the application and run using command python3 OCR.py / python OCR.py

( You can also use VS code by opening the OCR.py file and executing using “run” .But make sure to install python extension and the above mentioned packages , library using command python -m pip install somePackage if not done.)

# Features

Following are the features of this app

IMPORT IMAGE : By clicking on ‘Open image’ button you can load any image of your choice from your PC.

AUTO CROP : By clicking on ‘Auto Crop’ button the loaded image will be cropped into a four cornered image.

MANUAL CROP : By clicking on ‘ Manual Crop’ button you can crop the loaded image by selecting any four corners in the manner specified in the text box on the screen.

DETECT TEXT : By clicking on ‘Detect Text’ button the loaded image’s text will be auto detected and displayed on the text box( in blue ).

SHOW TEXT : By clicking on ‘Show Text’ button the detected words (text ) on the image loaded will be bounded in blue boxes.

BLUR IMAGE : By clicking on ‘Blur image’ button you can blur any image .

SAVE : By clicking on ‘Save Image’ button you can save the image modified by using any of the above methods in directory of your choice.

CLOSE ALL WINDOWS : By clicking on ‘Close All Windows’ button all the open window will be closed.

# OCR -GUI app screen

# A screenshot of a cell phone Description automatically generated