

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

