Optical Character Recognition (OCR)

Project Overview

Optical Character recognition is the mechanical or electronic conversion of images of typed, handwritten or printed text into machine-encoded text, whether from a scanned document, a scene-photo or from subtitile text superimposed on a image.

Problem and Solution Statement

Many times we need to write text from some hard paper like magazine, newspaper or some images. They could all involve you spending hours retyping manually and correcting typos. Or you could take a more modern approach and convert any and all of them into a digital format with fully editable text in a matter of minutes. Using OCR we can capture the image of that page and give that to OCR engine, OCR will convert the text from that image.

Benchmark (How this solution is better?)

OCR is often used as a “hidden” technology, powering many well known systems and services in our daily life. Less known, but as important, use cases for OCR technology include data entry automation, indexing documents for search engines, automatic number plate recognition, as well as assisting blind and visually impaired persons.

Implementation strategy

OCR is a tool that will take image as input and give us the text output that was that in image. I am using python as programming language to implement OCR. I will be using Opencv library to process images.The first phase of project is to learn opencv and nueral network and recognize printed text. In the second phse I will try to recognize handwritten text with accuracy as high as possible. After Doing this I will try to increase accuracy for more usefulness of the project.

Contributors

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