

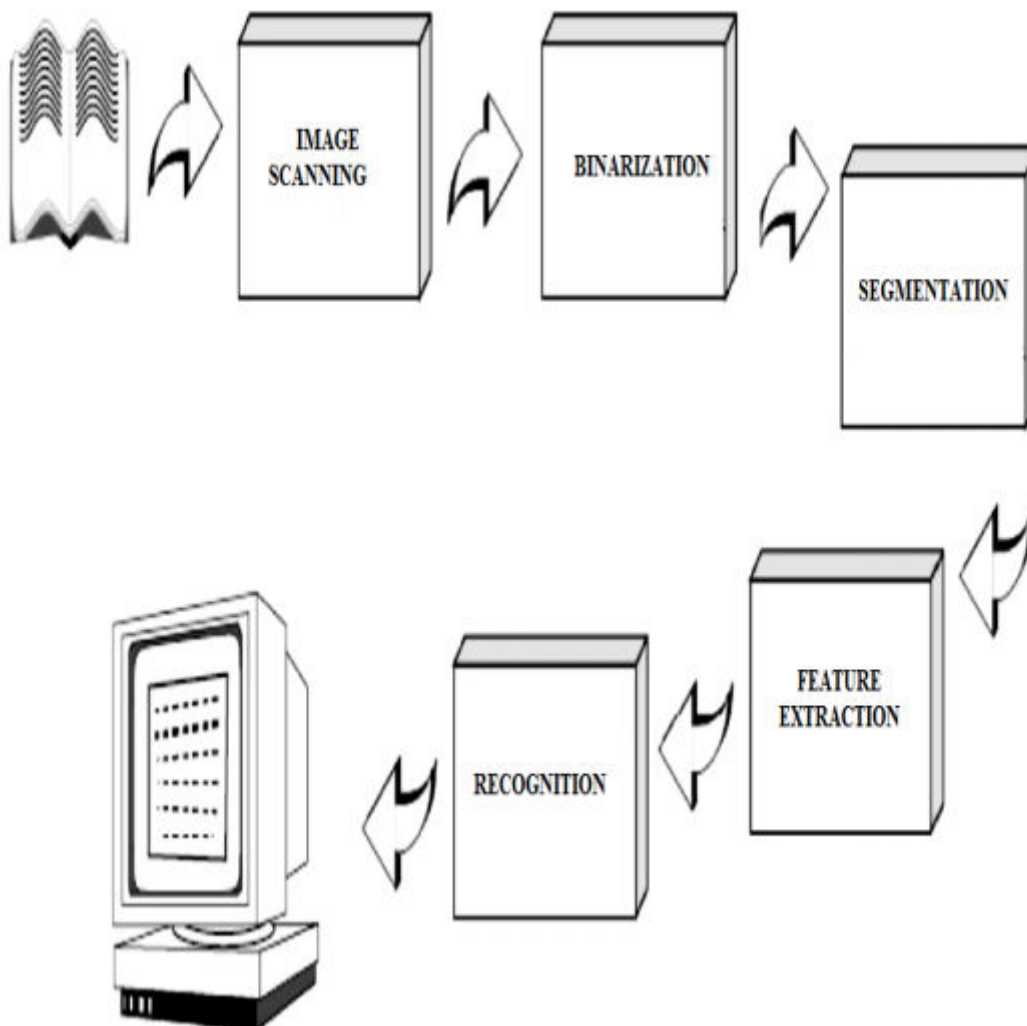


## Image to text converter

### Abstract:

In this paper an innovative, efficient and real-time cost beneficial technique that enables user to convert text image to text file. Optical character recognition (also optical character reader, OCR) is the mechanical or electronic conversion of images of typed, handwritten or printed text into machine-encoded text, whether from a scanned document, a photo of a document. We need a low cost system that will be able to automatically locate and read the text and save it as a text file. The text contained image is first pre-processed using Image Filtering. Then the OCR module prepares the text for recognition.

It uses the concept of Optical Character Recognition (OCR) and Image filtering in Raspberry pi which is written Python language.





# Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

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## **Software Needed:**

PIL(image processing)  
Pytesseract ocr

## **Hardware Needed:**

Raspberry Pi 2/3  
Webcam

## **Process Diagram for the program:**

Taking Image input from camera  
|  
Converting the Image to Black and White  
|  
Sharpening the Image  
|  
Detailing the Image  
|  
Using OCR to read characters  
|  
Saving the text in the file