**Analytics of Scanned**

**Prescriptions and Notes**

**Team:** #include

**Date**: 17/01/2019

**Introduction:**

This project focusses on recognition of doctors’ handwriting & analysing it for further diagnosis. It can detect printed text with nearly perfect accuracy. The recognition of doctors’ handwriting is difficult due to many different styles of writing. There are many softwares for recognising printed text/computer generated text but none of them can effectively recognise handwritten text (especially doctors’ handwriting).

**Details:**

* A text extractor which processes image of a prescription and output recognised words
* It can be trained for different handwritings using machine learning.

The structure of the text extraction process is divided into 4 parts:

1. Background Removal

* Removes Background
* Increases accuracy of word detection

1. Words Detection

* Detects word’s bounding boxes
* Words are detected using visual properties of words in an image

1. Normalization

* Resize to 60px height
* Grayscale image
* Tilt Correction

1. Words Recognition

The model has been tested and trained on the IAM dataset.