MACHINE LEARNING-Handwriting Recognition

Team Name CodeBros

Overview

The project will aim at developing an offline application which receives and interprets intelligible **handwritten** input from sources such as paper, documents, photographs, touch-screens and other devices.

The project will be based on MACHINE LEARNING.

Features

- The application will be able to convert handwritten text to a text document in the device.
- It will also be able to convert the input into someone else's handwriting.
- It will be able to save the handwritten inputs for further use i.e. convert one's handwriting to a new font.
- It will be able to google or copy text written as scribble on computer or smartphones

Achieving Goal

- First we will use image processing to take image as an input and manipulate it to convert to a grayscale image, which will be converted to an image matrix. For this process, we will use MATLAB
- Then this image matrix will be analysed segmenting the words out of the documents and letters out of each word
- Now this analysed data will be given to a well-designed neural network as input which will provide the 26 letters of english alphabets as output passing through hidden layers of the network
- Supervised learning method will be used by giving some initial data to the network about how the alphabets look like.

About Team

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Team Members

- 1. Bishal (150193)
 - Worked on a semester long project developing an interactive chatting app on Node.js
 - Familiar with basics of JavaScript.
 - Attended lecture series on Machine Learning by P-Club upto Neural Networks
 - Participated in Microsoft Hackathon (code.fun.do)
 - Participated in Google Devfest
 - Proficient in HTML and CSS
- 2. Chaitanya Dhawan (150199)
 - Attended lecture series on Machine Learning by P-Club upto Neural Networks.
 - Familiar with HTML.
- 3. Pritesh Kumbhare (150349)
 - Attended lecture series on Machine Learning by P-Club upto Neural Networks
 - Participated in Google Devfest
 - Familiar with HTML
- 4. Pratham Kumar Verma(150519)
 - Attended lecture series on Machine Learning by P-Club upto Neural Networks