

Handwritten Text Recognizer

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Handwritten Text Recognition System

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Abstract

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The aim of the project is to develop HTR software for Hindi Text recognition. HTR is an Text recognition and translation of images of typewritten or handwritten (usually captured by a scanner) into machine-editable text. In this project, the focus is on recognition of Hindi Text in a given scanned text document with the help of Neural Networks And Convert It into normal editable text.



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Handwriting recognition (HWR), also known as handwritten text recognition (HTR), is the ability of a computer to receive and interpret handwritten input from sources such as paper documents, images.

 The process of HTR involves several steps including preprocessing, segmentation, feature extraction, and classification.



Problem Definition

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Develope a system which can read and analyze handwritten text and convert it into normal editable text. handwriting recognition involves the automatic conversation of text in an image into text that are usable within computer and text-processing applications.



Software interface

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Frontend:

- HTML
- CSS
- JavaScript

Backend:

- Python
- Flask

Tools:

- Jupyter Notebook (IDE)
- TensorFlow



Literature Survey

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A Literature Survey on Handwritten Text Recognition Authors: Ayush Purohit Shardul Singh Chauhan Abstract and Figures Handwriting recognition has gained a lot of attentionin the field of pattern recognition and machine learning due to its application in various fields.



System Architecture

Handwritten Text Recognizer

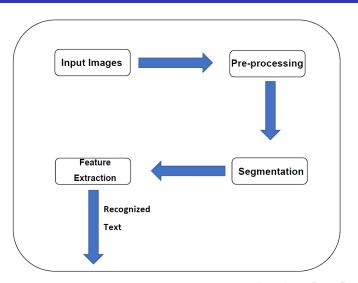
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Use case Diagram

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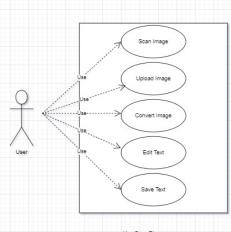
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Use Case Diagram



Class Diagram

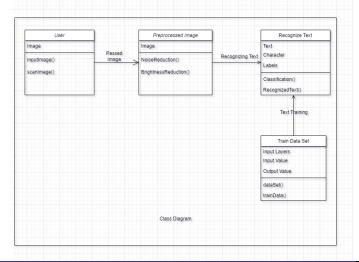
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Sequence Diagram

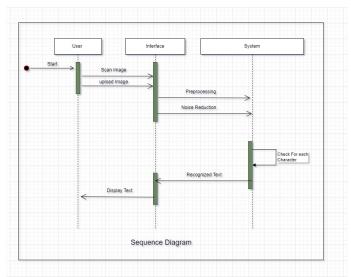
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State Chart

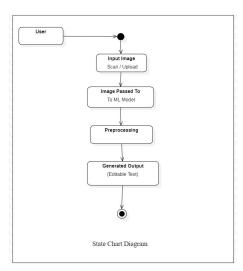
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Activity Diagram

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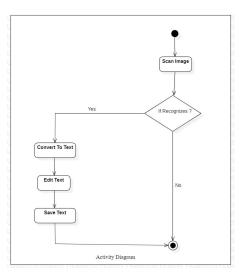
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Deployment

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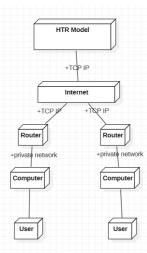
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Deployment Diagram



Algorithm:

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Algorithm: The SVM classifier
The SVM classifier algorithm is the most accurate in terms of accuracy so that the this is used



Steps:

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Steps:

- Input Image
- Pre-Processing
- Segmentation
- feature extraction
- classification
- Output



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Gunjan Singh, Sushma Lehri, "Recognition of Handwritten Hindi Characters using Back propagation Neural Network", International Journal of Computer Science and Information Technologies ISSN 0975-9646, Vol. 3 (4), 2012,4892-4895. Access

Kauleshwar Prasad, Devvrat C. Nigam, Ashmika Lakhotiya and Dheeren Umre "Character Recognition Using Neural Network Toolbox", International Journal of u- and e-Service, Science and Technology Vol. 6, No. 1, February, 2013



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Methodology References Thank You...