DEFINE YOUR PROBLEM STATEMENT

The problem statement is to classify the handwritten digits. The goal is to take an image of a handwritten digit and determine what the digit is. This digits range from zero (0) through nine (9). It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and sizes. The handwritten digit recognition system is a way to tackle this problem which uses the image of a digit and recognizes the digit present in the image.

BRAINSTORM

online characters suffer from dynamic of poor feature selection	slow convergence	affect training time	lack of recognition accuracy	complexity of noise from data	variations character styles
Huge variability form person to person	Cursive handwriting makes seperation and recognition is challenging	Difficult due to heavy printing resulting from the typewriter impact	The Issue is that there's a wide range of handwriting- good or bad	This makes it tricky for programmers of how every character might look	Heavy-tailed distributions remain a maj challenge fo modelers
The sheets must be placed properly in tray	Otherwise it would unnumbered the scanning	Difficult to recognize the digits in the image	Handwriting style of an individual person varies	There is no possibility of obtaining information about the type of the input	Stress or some par of numbe
variations in mood of writers make	heavy-tailed distributions	no sufficient mechanism to effectively manager	Pattern analysis is complex	very limited number of characters is offered by	difficult du broken ec touchin
it difficult Alpha numeric characters are	difficult due to shape variance and skewing	Collecting a good labelled dataset to learn is not cheap compared to synthetic data	Poor quality of source document due to degradation over	There is a probability of the potential	Difficult to predict the forbehavior complex sy.
not recognised well			time	of collapse	25

Helps to transform the writings in the papers to a text document format	mainly used in banking sector	Large quantities of text are often input quickly	Ability to scan the characters accurately	CNN network is used	Moreover it takes less time to convert within the electronic form
AHD fulfill the need of today's business world need	Removing background using machine learning algorithms	The process is much faster	Handwriting recognition is important for genealogy	Using higher- quality images that are easier for character recognition as inputs	Feasible for large volume of data set
Greater security technology	Printed characters can not be altered	Improving photography practices	The document is not easy to forge	Processing of information is fast	Advanced version can even recreate tables, columns and even produce sites

Online and offline detection is available	Information can be readable with high degree of accuracy	Very accurate and may produce reasonably top quality images	Online procedure is easier than offline procedure	100% Text- searchable documents	It is in electro form which straightforw to store an send by em
It is fast	Easy to Implement and support	The latest software can re- create tables also as original layout	Cost effective	Used to verify the originality of paper documents	The generati models can perform recognition dri segmentatio
Developing more advanced recognition algorithms to manage task accurately	It is cheaper than paying amount to manually enter great deal of text data	State of art strategy	Inspite of rough handling, one can read the information with high degree of accuracy	Designing documents in this is a friendly way	Flexible taccess

GROUP IDEAS

It involved
Machine learning
methods like
Hidden Markov
Models(HMM)
SVM etc.

Feature extraction step varies for every individual language and hence is not scalable

Used to augment the existing datasets. Training sets are used to train and adjust the weights of Artificial Neural Network

The performance of artificial learning models is pretty limited due to manual feature extraction phase and their limited capacity of learning.

With the advent of deep learning came tremendous improvements in accuracy of handwriting recognition. Al requires a lot of data to train while obtaining huge corpus of labelled handwriting limages for different languages is a cumbersome task

PRIORITIZE IDEAS

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Low-priority

High-priority