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.

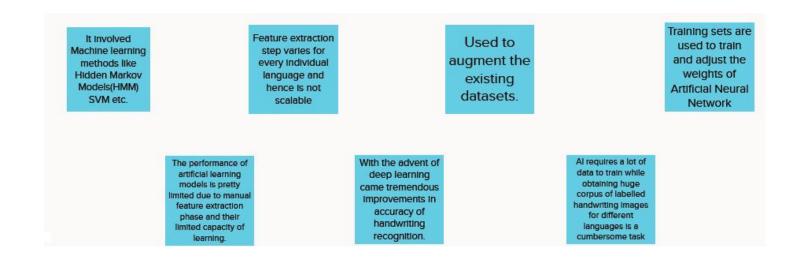
BRAINSTORM

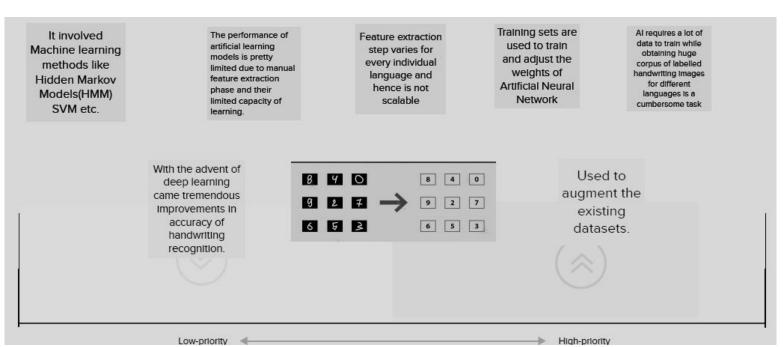
online characters	slow	affect	lack of	complexity	variations in
suffer from dynamic of poor		training	recognition	of noise	character
feature selection	convergence	time	accuracy	from data	styles
reduite servenon		emio.	decardoy	moni data	51,105
-77770000	Cursive	Difficult due to	The Issue Is that	This makes it	Heavy-tailed
Huge	handwriting	heavy printing	there's a wide	tricky for	distributions
variability	makes seperation	resulting from	range of	programmers of how every	remain a major
form person	and recognition is	the typewriter	handwriting-	character might	challenge for
to person	challenging	impact	good or bad	look	modelers
The sheets	Otherwise it	Difficult to	Handwriting	There is no	0.
must be	would	recognize the	style of an	possibility of obtaining	Stress on
placed	unnumbered		individual	information about	some parts
properly in	the scanning	digits in the		the type of the	of numbers
tray		image	person varies	input	
variations in mood of writers make it difficult	heavy-tailed distributions	no sufficient mechanism to effectively manager uncertainity	Pattern analysis is complex	very limited number of characters is offered by this	difficult due broken edge touching characters
variations in mood of writers make it difficult	17.0 Tar	mechanism to effectively manager	analysis is	very limited number of characters is offered by this	broken edge touching
variations in mood of writers make	distributions	mechanism to effectively manager uncertainity Collecting a good labelled dataset to	analysis is complex	very limited number of characters is offered by this	broken edge touching characters Difficult to
variations in mood of writers make it difficult	distributions	mechanism to effectively manager uncertainity Collecting a good labelled dataset to learn is not cheap	analysis is complex Poor quality of source document due to	very limited number of characters is offered by this	broken edge touching characters Difficult to predict the futu
variations in mood of writers make it difficult Alpha numeric characters are	distributions difficult due to shape	mechanism to effectively manager uncertainity Collecting a good labelled dataset to	analysis is complex	very limited number of characters is offered by this	broken edg touching characters Difficult to predict the fut behevior of
variations in mood of writers make it difficult Alpha numeric characters are not recognised	difficult due to shape variance and	mechanism to effectively manager uncertainity Collecting a good labelled dataset to leam is not cheap compared to	Poor quality of source document due to degradation over	very limited number of characters is offered by this	broken edge touching characters Difficult to
variations in mood of writers make it difficult Alpha numeric characters are not recognised well Huge	difficult due to shape variance and skewing	mechanism to effectively manager uncertainity Collecting a good labelled dataset to learn is not cheap compared to synthetic data Otherwise it	Poor quality of source document due to degradation over	very limited number of characters is offered by this There is a probability of the potential of collapse	broken edge touching characters Difficult to predict the futu behavior of
variations in mood of writers make it difficult Alpha numeric characters are not recognised well Huge ambiguity of	difficult due to shape variance and skewing	mechanism to effectively manager uncertainity Collecting a good labelled dataset to learn is not cheap compared to synthetic data Otherwise it would be hard to	Poor quality of source document due to degradation over time	very limited number of characters is offered by this There is a probability of the potential of collapse	broken edge touching characters Difficult to predict the futu behavior of complex syste
variations in mood of writers make it difficult Alpha numeric characters are not recognised well Huge	difficult due to shape variance and skewing	mechanism to effectively manager uncertainity Collecting a good labelled dataset to learn is not cheap compared to synthetic data Otherwise it	analysis is complex Poor quality of source document due to degradation over time	very limited number of characters is offered by this There is a probability of the potential of collapse	Difficult to predict the future behavior of complex system.

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 electronic form which is straightforward to store and send by email
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 generative models can perform recognition driver segmentation
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 to access anywhere

GROUP IDEAS





PRIORITIZE IDEAS