S.NO	AUTHOR	YEAR OF	ABSTRACT	CONCEPT\	FIND ING FOR	ADVANTAGES	DISADVANTAGES
	NAME	PUBICATIONS		ALGORITHM	EVALUATION		
1	Rohini.M	2019	Abstract	HANDWRITTE		Handwriting	Classification of
	Dr.D.Surendran		Handwritten	N digit		recognition	images and
			digit	recognition is		system is the	patterns has
			recognition	the ability of		most basic	been one of the
			has recently	a computer		and an	major
			been of very	system to		important	implementation
			interest	recognize the	95.72%	step towards	of Machine
			among the	handwritten		this huge and	Learning and
			researchers	inputs like		interesting	Artificial
			because of	digits,		area of	Intelligence Can
			the evolution	characters		Computer	not understand
			of various	etc. from a		Vision.	
			Machine	wide variety		Deep	
			Learning,	of sources		Learning has	
			Deep	like emails,		emerged as a	
			Learning and	papers,		central tool	
			Computer	images,		for self-	
			Vision	letters etc.		perception	
			algorithms.	This has been		problems like	
			In this	a topic of		understanding	
			report, We	research for		images, voice	
			compare the	decades.		from humans,	
			results of	Some of the		robots	
			some of the	research		exploring the	
			most widely	areas include		world	
			used Machine	signature		Every tool	
			Learning	verification,		has its own	
			Algorithms	bank check		complexity	
			like CNN-	processing,		and accuracy	
			convolution	postal			
			neural	address			
			networks and	interpretatio			
			with Deep	n from			
			Learning	envelopes et			
			algorithm like	Here			
			multilayer	comes the			
			CNN using	use of Deep			
			Keras with	Learning. In			
			Theano and	the past			
			Tensorflow.	decade, deep			
			MNIST is a	learning has			
			dataset which	become the			
			is widely used	hottool for			
			for	Image			
			handwritten	Processing,			
			digit	object			

	T		1				
			recognition.	detection,			
			The dataset	handwritten			
			consist of	digit and			
			60,000	character			
			training	recognition			
			images and	etc.			
			10,000 test	A lot of			
			images.The	machine			
			artificial	learning tools			
			neural	have been			
			neworks can	developed			
			all most	like scikit-			
			mimic the	learn, scipy-			
			human brain	image etc.			
			and are a key	and pybrains,			
			ingredient in	Keras, Thean			
			image				
			processing				
			field				
2	S M Shamim,	2018	Handwritten	The main		In this paper	It is not remove
	Mohammad		character	application of	90.37%	used different	the redundancy
	Badrul Alam		recognition is	machine		machine	from the data
	Miah, Abdullah		one of the	learning		learning	and gain a more
	·		practically	methods over		algorithm for	effective
			important	the last		recognition of	embodiment of
			issues in	decade has		handwritten	the word image
			pattern	determined		numerals	through a set of
			recognition	efficacious in		The	numerical
			applications.	conforming		accuracy has	attributes
			The	decisive		been obtained	It is quiet
			applications	systems		for Multilayer	exhausting that
			of digit	which are		Perceptron	sometimes to
			recognition	competing to			identify hand
			includes in	human		Handwritten	written
			postal mail	performance		digit dataset	characters as it
			sorting, bank	and which		are vague in	can be seen that
			check	accomplish		nature	most of the
			processing,	far improved		because there	human beings
			form data	than		may not	can't even
			entry, etc.	manually		always be	recognize their
			The heart of	written		sharp and	own written
			the problem	classical		perfectly	scripts not
			lies within the	artificial		straight lines.	understanding
			ability to	intelligence		-	
			develop an	systems used			
			efficient	in the			
			algorithm	beginnings of			
			that can	optical			
<u> </u>	l .	l		- 10 0.00.			

	r	ecognize	character		
	h	and written	recognition		
	d	ligits and	technology		
		vhich is	One of the		
	s	ubmitted by	challenges in		
		sers by the	handwritten		
		vay of a	characters		
		canner,	recognition		
		ablet, and	wholly lies in		
		ther digital	the variation		
		levices. This	and		
	р	aper	distortion of		
		resents an	handwritten		
	_ ·	pproach to	character set		
		off-line	because		
		andwritten	distinct		
		ligit	community		
		ecognition	may use		
		ased on	diverse style		
		lifferent	of		
		nachine	handwriting,		
		earning	and control		
		echnique.	to draw the		
		he main	similar		
		bjective of	pattern of the		
		his paper is	characters of		
		o ensure	their		
		effective and	recognized		
		eliable	script		
		pproaches	30pt		
		or			
		ecognition of			
		andwritten			
		ligits. Several			
		nachines			
		earning			
		lgorithm			
		namely,			
		лиltilayer			
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		Support			
		ector/			
		Aachine,			
		laïve Bayes,			
		Bayes Net,			
		Random			
		orest, J48			
		ind Random			
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Remya Vinayakumar, Vince Pau 2016 Handwriting differs from person to person. Some may be legible while some others are difficult to read or understand. Hence this project aims at recognizing the text and understanding g what it is with the help of an anural network and fuzzy logic. It involves segmentation and classification. Here the method used is Canny Edge Detection Algorithm and the Histogram of Gradients for the feature extraction. The neural network is trained on to a 50 set winderstand. But it is also beeng winderstand. But it is also beserved in the litis mainly being applied in the field of robotics, pattern recognition one of the most intelligence is one of the most intelligence is defined as a person's writing using the pen or any possible engage. The person of the most of the person of the person one of the most of the person one of the most one of the		1	1	_				
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			alphabets and	in plants.			
			10 numbers	Artificial			
			for	intelligence is			
			recognition	the			
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			fuzzification	associated			
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			applied along	machines or			
			with this	software			
			inorder to get				
			more				
			accurate				
			results by				
			giving the				
			questionnaire				
			s, ie, by giving				
			the conditions				
			to check if it				
			satisfies a				
			particular				
			character				
			which is to be				
			determined				
4	MALOTHU	2011	Character	It helps		This accuracy	It gave different
4	NAGU,	2011	recognition	humans ease		rate is very	training and
	N VIJAY		plays an	their jobs and		high.	testing results
	SHANKAR,		important	solve more		Character	every day for
	K.ANNAPURNA		role in the	complex		recognition is	each numeral.
	K.ANNAFUNNA		modern	problems		becoming	The system was
			world. It can	This system	99%	more and	not stable
			solve more	is developed	99%	more	Apart from
				·			
			complex	for zipcode or		important in	the above
			problems and	postal code		the modern	problems and
			makes	recognition		world	parts that need
			humans' job	that can be		It helps	improvements,
			easier. An	employed in		humans ease	the overall
			example is	mail sorting.		their jobs and	recognition
			handwritten	This can help		solve more	system was not
			character	humans to		complex	successful.
			recognition.	sort mails		problems	
			This is a	with postal		Handwriting	
						recognition is	
			system widely	codes that		_	
			used in the	are difficult		not a new	
			used in the world to	are difficult to identify.		not a new technology,	
			used in the world to recognize zip	are difficult to identify. For more		not a new technology, but it has not	
			used in the world to	are difficult to identify.		not a new technology,	

	1	1	T			T	
			sorting. There	researchers		recently.	
			are different	have been			
			techniques	working on			
			that can be	handwriting			
			used to	recognition.			
			recognize	Finally,			
			handwritten	Artificial			
			characters.	Neural			
			Two	Networks,			
			techniques	using back-			
			researched in	Propagation			
			this paper are	method will			
			Pattern	be used to			
			Recognition	train and			
			and Artificial	identify			
			Neural	handwritten			
			Network	digits			
			(ANN).				
			Neural				
			Network is				
			used to train				
			and identify				
			written digits				
5	Akkireddy	2019	The main	This research		This thesis is	very limited
	Challa		purpose of	will be		conducted by	learning
			this thesis is	carried out		using Machine	capability.
			to build an	using two		learning	
			automatic	methods. The		concepts	Some of these
			handwritten	first research	92%		tasks not identify
			digit	method is the		n. At a high	It produced
			recognition	"Literature		level, machine	the unnecessary
			method for	Review" and		learning is the	segmentation
			the	the second		process of	hypothesis.
			recognition of	"Experiment"		teaching a	
			connected	. Initially, a		computer	
			handwritten	literature		system on	
	1	i	digit strings	review is		how to make	
1			digit strings.	review is		now to make	
			To accomplish	conducted to		accurate	
			To accomplish	conducted to		accurate	
			To accomplish the	conducted to get a clear		accurate predictions	
			To accomplish the recognition	conducted to get a clear knowledge		accurate predictions when fed the	
			To accomplish the recognition task, first, the	conducted to get a clear knowledge on the		accurate predictions when fed the data	
			To accomplish the recognition task, first, the digits were	conducted to get a clear knowledge on the algorithms		accurate predictions when fed the data Among	
			To accomplish the recognition task, first, the digits were segmented	conducted to get a clear knowledge on the algorithms and		accurate predictions when fed the data Among these, Deep	
			To accomplish the recognition task, first, the digits were segmented into individual	conducted to get a clear knowledge on the algorithms and techniques		accurate predictions when fed the data Among these, Deep Learning is	
			To accomplish the recognition task, first, the digits were segmented into individual	conducted to get a clear knowledge on the algorithms and techniques		accurate predictions when fed the data Among these, Deep Learning is	
			To accomplish the recognition task, first, the digits were segmented into individual digits. Then, a	conducted to get a clear knowledge on the algorithms and techniques which will be		accurate predictions when fed the data Among these, Deep Learning is considered to	

			Т	T			
			module is	first research		branch of	
			employed to	question i.e.,		Machine	
			classify each	to know		Learning.	
			segmented	which type of			
			digit	data is			
			completing	required for			
			the	the machine			
			handwritten	learning			
			digit string	methods and			
			recognition	the data			
			task. In this				
				analysis is			
			study,	performed.			
			different	Later on, with			
			machine	the			
			learning	knowledge of			
			methods,	RQ1,			
			which are	Experimentat			
			SVM, ANN	ion is			
			and CNN	conducted to			
			architectures	answer the			
			are used to	RQ2, RQ3,			
			achieve high	RQ4.			
			performance	Quantitative			
			on the digit	data is used			
			string	to perform			
			recognition	the			
			problem	experimentat			
			problem	ion because			
				qualitative			
				data which			
				obtains from			
				case-study			
				and survey			
				cannot be			
				used for this			
				experiment			
				method as it			
				contains non-			
				numerical			
				data			
6	Priyank Patel,	2021	The necessity	The new		The methods	The digits
	Roshan Shinde,		for quick and	presentation		of exchanging	Character system
	Siddhesh Raut,		precise	of minimal		ideas or	for English
	Sheetal		content	effort		information	characters
	Mahadik		section on	compact pen-	95%	between	dependent on
1					1 2,3		•
	Widildalk		l little	l based PCs		computers	I CNN
	Wandan		little handheld PCs	based PCs, (for example		computers	CNN
	Munduik		little handheld PCs has prompted	for example the "Personal		computers and its users.	CNN

 1	 			
	a resurgence	Digital	Handwriting	
	of interest in	Assistant" or	recognition	Such as it is in
	on-line word	PDA	can be both	noisly to hear
	recognition	classification)	offline and	Not always
	utilizing	has	online	accurate
	counterfeit	concentrated		Unique style of
	neural	on viable	We are	writing
	Networks. Old	enhancement	hopeful for	Poor image of
	style	s in	the upcoming	text
	strategies are	Handwritten	future	Different
	consolidated	Character		languages
	and improved	Recognition	The decision	Modern
	to give strong	(HRS). This	making is	handwritting
	recognition of	moves	done inside	Compared to
	hand-printed	towards	the order	historical
	English	computerized	stage	
	content. The	pointer for	G	
	focal idea of a	composing		
	neural net as	gives more		
	a character	data, similar		
	classifier gives	to pen stroke,		
	a legitimate	pressing		
	base to are	factor and		
	cognition	speed of		
	framework;	composing.		
	long-standing	HRS has been		
	issues	read for		
	comparative	almost forty		
	with	years and		
		there are		
	preparing, speculation,	numerous		
	•			
	division,	unprecedent		
	probabilistic	ed proposed		
	formalisms,	approaches.		
	and so forth,	In coming		
	need to	days,		
	settled,	character 		
	notwithstandi	recognition		
	ng, to	framework		
	instigate	may work a		
	astounding	vital factor to		
	execution.	make a		
	assortment of	paperless		
	developments	climate by		
	in a manner	digitizing and		
	to utilize a	handling		
	neural net as	existing		
I		_		

		T	
a very v			
recogni			
introdu	ced:		
negativ	e		
prepari	ng,		
stroke			
twisting	5,		
adjustir	g,		
standar	dized		
yield bl	under,		
mistake			
accentu	ation,		
numero	us		
portray	als,		
quantiz	ed		
loads, a			
incorpo	rated		
word d			
all add	co		
effectiv	e and		
hearty			
executi	on.		