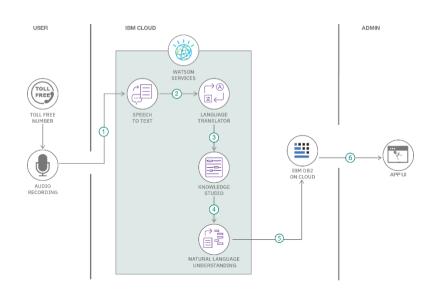
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID39460
Project Name	Project – A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM
Maximum Marks	4 Marks

## **Technical Architecture**



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0	2	1	

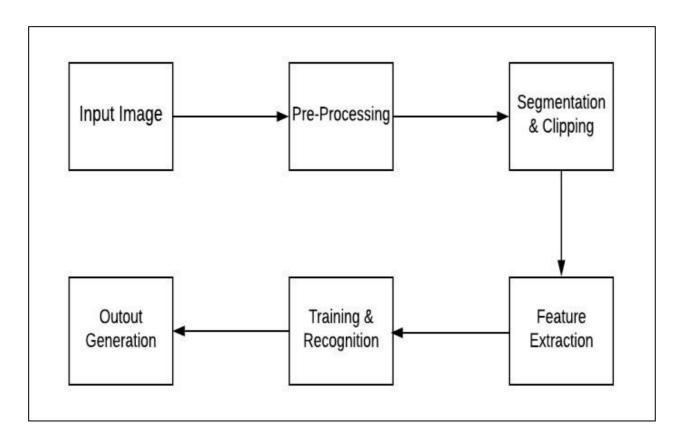


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## **INTRODUCTION**

Digit Recognition is nothing but recognizing or identifying the digits in any document. Digit recognition framework is simply the working of a machine to prepare itself or interpret the digits.

Handwritten Digit Recognition is the capacity of a computer to interpret the manually written digits from various sources like messages, bank cheques, papers, pictures, and so forth and in various situations for web based handwriting recognition on PC tablets, identifying number plates of vehicles, handling bank cheques, digits entered in any forms etc.

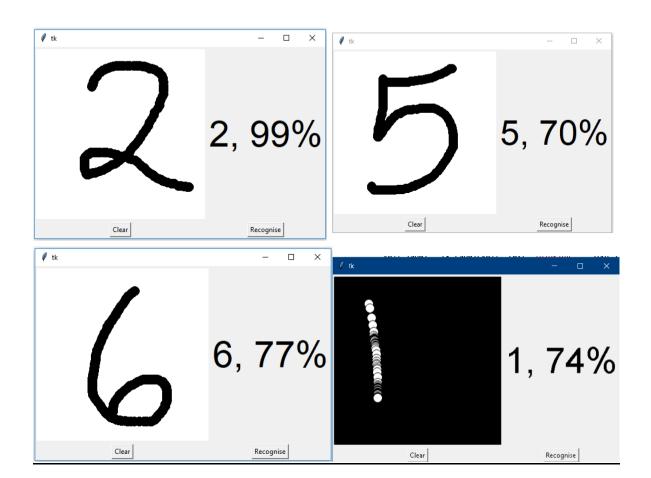


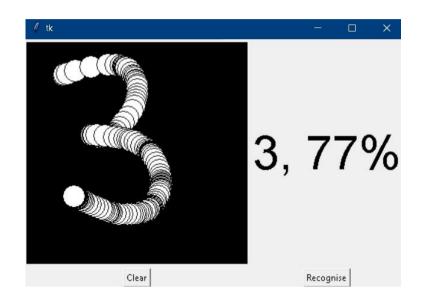
Model: "sequential"			
Layer (type)	Output	Shape	Param #
conv2d (Conv2D)	(None,	26, 26, 32)	320
max_pooling2d (MaxPooling2D)	(None,	13, 13, 32)	0
conv2d_1 (Conv2D)	(None,	11, 11, 64)	18496
conv2d_2 (Conv2D)	(None,	9, 9, 64)	36928
max_pooling2d_1 (MaxPooling2	(None,	4, 4, 64)	0
flatten (Flatten)	(None,	1024)	0
dense (Dense)	(None,	100)	102500
dense_1 (Dense)	(None,	10)	1010 =======

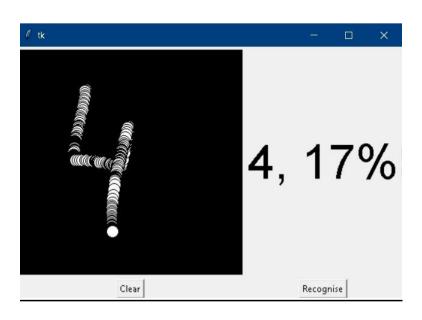
Total params: 159,254

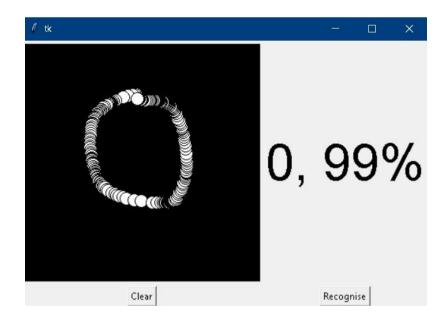
Trainable params: 159,254

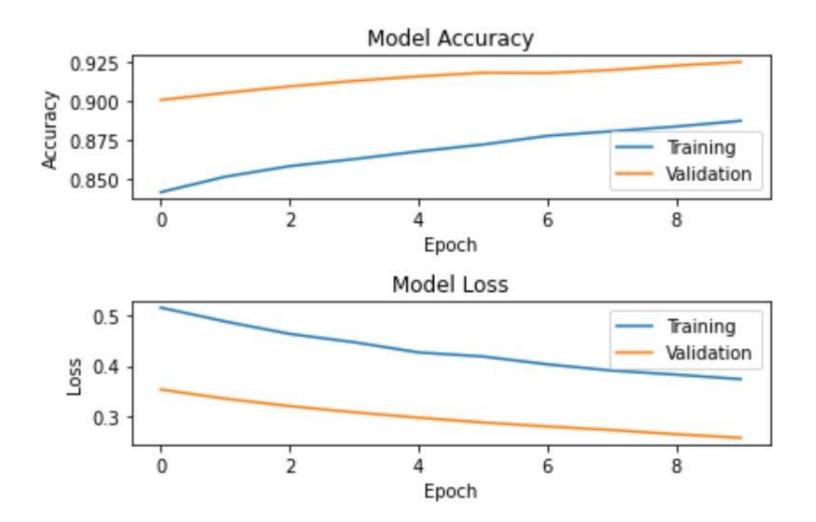
Non-trainable params: 0

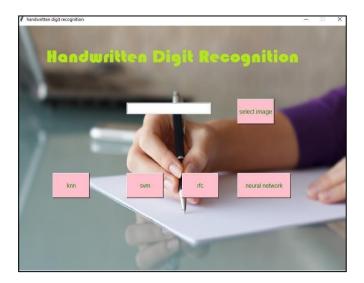


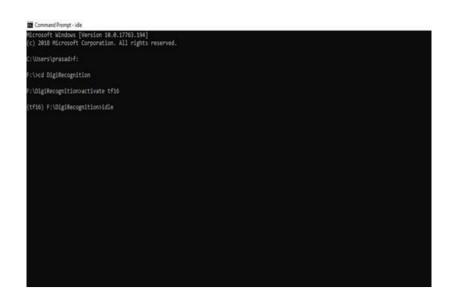












	data points: 1	33		
A CONTRACTOR OF THE CONTRACTOR	points: 450			
EVALUATION (	ON TESTING DAT			
	precision	recall	fl-score	support
	1.00	1.00	1.00	43
	0.95	1.00	0.97	37
2	1.00	1.00	1.00	38
3	0.98	0.98	0.98	46
	0.98	0.98	0.98	55
	0.98	1.00	0.99	59
	1.00	1.00	1.00	45
100		0.98	0.99	41
8	0.97	0.95	0.96	38
9	0.96	0.94	0.95	48
micro avo	0.98	0.98	0.98	450
macro avo	0.98	0.98	0.98	450
weighted avo	0.98	0.98	0.98	450
Digit is: 4				

