

PROJECT TITLE: A Novel Method for Handwritten Digit Recognition System

TEAM ID: [**IBM-Project-26867-1660038968**](#)

SOLUTION FIT

CUSTOMER SEGMENT(S)

Handwritten Digit Recognition is an interesting machine learning problem in which we have to identify the handwritten digits through various classification algorithms. The Bank Employee who makes the transactions through the cheque.

JOBS-TO-BE-DONE / PROBLEMS

Every single has their own style of writing which could not recognize by the computer.

TRIGGERS

Feel free to make transactions without any fear about their style of writing.

EMOTIONS: BEFORE / AFTER

If the person faces a problem regarding the transaction they could confidently handle the situation by using handwritten digit recognition system.

AVAILABLE SOLUTIONS

- Automatic digit recognition
- - In past, people identify the digits to their analysis sometimes it causes wrong transactions.
- - By using this application, they could easily identify the digits.

CUSTOMER CONSTRAINTS

External dependencies are quite expensive offered by the people, So this process problem through their installation in mobile.

BEHAVIOUR

To classify the digits in correct way, they could make the transactions easier without any doubtfulness.

CHANNELS OF BEHAVIOUR

- ONLINE:

Promoting this application through the mobiles, the transaction could be done at any place without the presence in bank.

- OFFLINE:

The identification of the digits which is in the handwritten form directly captured by using mobile application and that could be used to convert the those digits into machine readable forms.

PROBLEM ROOT CASE

Every single has their own style of writing which could not recognize by the computer.

OUR SOLUTION

- CNN model could be used to provide very High accuracy in image recognition problems and also reduces the high dimensionality of the images, without losing its information.
- It can be used to convert the handwritten digits to machine readable format.