

**Project Title:**

A novel method for handwritten  
digit recognition System.

**Project Design Phase-I - Solution Fit Template****Team ID:** PNT2022TMID17749

Define CS, fit into CC	<p>1. CUSTOMER SEGMENT(S)</p> <p>CS</p> <ol style="list-style-type: none"><li>1. Bank</li><li>2. Students</li><li>3. Employees</li></ol>	<p>6. CUSTOMER</p> <p>CS</p> <ol style="list-style-type: none"><li>1. Scan the input properly</li><li>2. Network connection</li></ol>	<p>5. AVAILABLE SOLUTIONS</p> <p>CS</p> <ol style="list-style-type: none"><li>1. Conversion using linear regression.</li><li>2. Conversion using GAN, ANN.</li></ol>	Explore AS, differentiate
Focus on J&P, tap into BE, understand RC	<p>2. JOBS-TO-BE-DONE / PROBLEMS</p> <p>CS</p> <ol style="list-style-type: none"><li>1. Different style of writing.</li><li>2. Improper input</li><li>3. Wrong manual work</li></ol>	<p>9. PROBLEM ROOT CAUSE</p> <p>RC</p> <ol style="list-style-type: none"><li>1. High manual error</li><li>2. Takes more time</li><li>3. Converting large data is difficult.</li></ol>	<p>7. BEHAVIOUR</p> <p>BE</p> <ol style="list-style-type: none"><li>1. Tries other conversion applications or websites.</li></ol>	Focus on J&P, tap into BE, understand RC

### 3. TRIGGERS

1. Hearing about website through social media or friends.

TR

### 4. EMOTIONS: BEFORE / AFTER

EM

Before: Pressure, requires more time,  
Frustrated.

After: Confident, feel relaxed, time saving

### 10. YOUR SOLUTION

SL

Our solution is to create a CNN model and train it. The input is passed through the layers of CNN architecture giving the digital digit. It has more accuracy and time consuming.

### 8. CHANNELS of BEHAVIOUR

CH

Online: Applications such as google lens, pen to print.

Offline: Ask friends for help to convert huge data.