ProjectTitle: A Novel Method for Handwritten Digit Recognition System

1. CUSTOMER SEGMENT(S)



J&P

Fintech Industries

Define CS, fit into CC

- Supply Chain Management
- Medical data Transcriptions
- Scientific and Space Research

2. CUSTOMER CONSTRAINTS



- Speed and Accuracy of the system
- Size of the vocabulary
- Spatial layout
- Lack of feedback-based system

3. AVAILABLE SOLUTIONS







Team ID: PNT2022TMID32105

Explore AS, differentiate

4. JOBS-TO-BE-DONE / PROBLEMS

- To design a system that recognizes a wide range of handwriting scripts
- ML based approach to identify the character quickly and accurately
- Adaptive learning module to learn from its own instances and gets updated

5. PROBLEM ROOT CAUSE



- In cases where distinct characters look very similar making it hard for a computer to recognize it accurately.
- Different styles of cursive handwriting is another challenge that requires a support system based on vocabulary

6. BEHAVIOUR



- In handwriting recognition (HWR), the module interprets the user's handwritten script into an appropriate digital format s
- Provision for real-time handwritten update in case if the application used by fixed and same users
- Know the market trends and adapt accordingly

7. TRIGGERS



- Longer and more in scale, the system understood better
- With its rich vocabulary, it has a support system to autofill the suggestions based on user input

8. EMOTIONS: BEFORE / AFTER



- Before: Sometimes character look similar so digit identification process is tedious and time consuming.
- Also, inaccurate sometimes. . After: Using deep learning, identification is faster and relatively more accurate.

9. YOUR SOLUTION



- Deep learning.
- Intelligent feedback and support system based on neural network making the system more robust

10. CHANNELS of BEHAVIOUR



1. ONLINE

online handwriting recognition consists of interpreting handwriting represented either by the trajectoryofthepenorbyscanningthescript

2.OFFLINE

Offline handwriting recognition consists of interpreting the handwritten scanned document.

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