

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <span>CS</span> <p>A person who needs to read postal addresses, bank check amounts, and forms. Also if a person doesn't have proper eye sight he or she cannot read the signatures properly and they cannot be sure about the authenticity of the thing or document which has been signed.</p>	<b>6. CUSTOMER CONSTRAINTS</b> <span>CC</span> <p>It is a hard task for the machine because handwritten digits are not perfect and can be made with many different flavors. The handwritten digit recognition is the solution to this problem which uses the image of a digit and recognizes the digit present in the image.</p>	<b>5. AVAILABLE SOLUTIONS</b> <span>AS</span> <p>The capability of a computer to tell the novel handwritten integers from different sources like images, papers, touch devices</p>	Explore AS, differentiate	
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span>J&amp;P</span> <p>Offline handwriting recognition systems are less accurate than online systems because only spatial information is available for offline systems, while both spatial and temporal information is available for online systems.</p>	<b>9. PROBLEM ROOT CAUSE</b> <span>RC</span> <p>It is easy for the human to perform a task accurately by practicing it repeatedly and memorizing it for the next time</p>	<b>7. BEHAVIOUR</b> <span>BE</span> <p>Behavioral characteristics through text processing and handwriting recognition, with the objective of incorporating the obtained results with futuristic artificial intelligence systems that can employ text processing and handwriting recognition as individualistic signatory features</p>		Focus on J&P, tap into BE, understand RC
	<b>3. TRIGGERS</b> <span>TR</span> <p>The live recognition rate highly depends on the digit skew, as automatic de-skewing was not implemented, but manually performed.</p>	<b>10. YOUR SOLUTION</b> <span>SL</span> <p>We integrated the handwritten recognition model into the full text recognition system by augmenting the script identification model with an additional classification between printed text and handwritten text.</p>	<b>8. CHANNELS of BEHAVIOUR</b> <span>CH</span> <p>8.1 ONLINE Online handwriting recognition involves the automatic conversion of text as it is written on a special digitizer or PDA, where a sensor picks up the pen-tip movements as well as pen-up/pen-down switching.</p> <p>8.2 OFFLINE K-NN combined with preprocessing methods is capable of achieving great performance apart from Neural Network when used as a classification algorithm in offline handwritten digit recognition.</p>		
<b>4. EMOTIONS: BEFORE / AFTER</b> <span>EM</span> <p>Handwriting and signature biometrics have a long history in the literature, especially in terms of identity recognition and/or verification; nevertheless, it reveals more information therefore provides more opportunities for personal characteristics estimation, particularly, emotional state</p>					