Project Design Phase-I Proposed Solution

Date	23 September 2022
Team ID	PNT2022TMID24987
Project Name	A Novel Method For Handwritten Digit Recognition
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In the modern world, digit recognition is crucial. It is capable of solving increasingly difficult problems and making humans' jobs easier. Handwritten digit recognition is one example. This is a worldwide system for recognizing zip codes or postal codes for mail sorting. Handwritten digit recognition can be accomplished using a variety of approaches. The machine has a difficult duty because handwritten digits are not flawless and can be generated with a variety of flavors. The solution to this issue is handwritten digit recognition, which uses an image of a digit and identifies the digit represented in the image.
2.	Idea / Solution description	Handwritten digit recognition is performed using the MNIST dataset which contains 60,000 training images of handwritten digits from zero to nine and 10,000 images for testing. So, the MNIST dataset has 10 different classes. In this project, we are going to implement a handwritten digit recognition application trained using the Convolutional Neural Networks model. In the end, a GUI is built where the user gives the handwritten digit as input where it is recognized and the result is displayed immediately.
3.	Novelty / Uniqueness	This project introduces an operative strategy for dealing with novelty in the handwritten visual recognition domain. A perfect transcription agent would be able to distinguish known and unknown characters in a picture, as well as determine any aesthetic variations that may occur inside or between texts. The existence of novelty has shown to be a major stumbling block for even the most

activities. Novelty in handwritten papers might include, among other things, a change in the writer, character properties, writing attributes, or overall document appearance. Instead of examining each element separately, we believe that an integrated agent capable of processing known characters and novelties concurrently is a superior technique. The handwritten digit recognition problem can be seen as a subtask of the optical character recognition (OCR) problem. There are many benefits associated with the handwritting recognition system. In addition to reading postal addresses and bank check amounts, it is also useful for reading forms. Furthermore, it's used in fraud detection because it makes it easy to compare two texts and determine which one is a copy. As a result, this system fulfils customers' expectations, as it is a novel method for recognizing handwritten digits, ensuring high accuracy for the model and meeting all customer expectations. Users will save a lot of time and effort if the system provides various synonyms for the words recognized. Due to the fact that the users in rural areas will be using their own regional language, this proposed system should be able to detect those digits as well. As the system is being used in socially crowded places such as banks to check amounts, it should be fast and reliable. As it is designed to solve real-world problems, it should be highly reliable and trustworthy in every way, and users throughout the world should be able to use it effectively. 5. Business Model (Revenue Model) A revenue model means understanding how a startup can make money. Our major revenue sources consist of sales, government funds, and public donations. The introduction of novel ideas increases revenue streams, such as introducing gesture or touch features, voice read out of recognised digits, etc. 6. Scalability of the Solution One of the approaches to make the handwritten digit recognition systems scalable is 10 make use of cloud-native methods. For example, one of the cloud soluti			robust machine learning-based algorithms for these
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	the specific cloud environment that best supports
	our business needs. We can take advantage of built-
	in security capabilities and AI model monitoring. We
	can Automate AI lifecycles with ModelOps pipelines,
	deploy and run models through one-click integration
	and also prepare and build models visually and
	programmatically. Looking at these advantages, we
	can drive better business outcomes by optimizing
	our decisions and also make
	our solution scalable using cloud.