PROJECT DESIGN PHASE-1

PROPOSED SOLUTION

Date	23 September 2022
Team ID	PNT2022TMID40505
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum marks	2 marks

S.NO.	PARAMETER	DESCRIPTION
1.	Problem Statement(problem to be solved)	Statement-The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits. Description: It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and sizes.
2.	Idea/Solution Description	 It is the capability of a computer to fete the mortal handwritten integers from different sources like images, papers, touch defences. It allows user to translate all those signature and notes into electronic words in a text document format and this data only requires far less physical space than the storage of the physical copies.

3.	Novelty/Uniqueness	1.Artificial Intelligence developed the app called Handwritten digit Recognizer. 2. It converts the written word into digital approximations and utilizes complex algorithms to identify characters before churning out a digital approximation.
4.	Social Impact/Cutomer Statisfication	 To receive and interpret intelligible handwritten input from sources such as paper documents, photographs, touch-screens and other devices. The main purpose of this application is to convert handwritten digits into machine readable formats.
5.	Business Model (Revenue Model)	1.Al can generate revenue through consumer cases like reading text from stylus writing or camera applications to academic research on how handwriting recognition works in humans.2.It minimizing the human labour and enhancing the solution versatility
6.	Scalability Solution	 We described the data generation pipeline and presented a series of techniques to generate better data. The experimental results showed that models can be improved by using the generated data, and we obtained the best model by combining the generated data and small amount of real images.