Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID41253
Project Name	Project - A NOVEL METHOD FOR
	HANDWRITTEN DIGIT RECOGNITION SYSTEM
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Overview System Architecture Diagram:

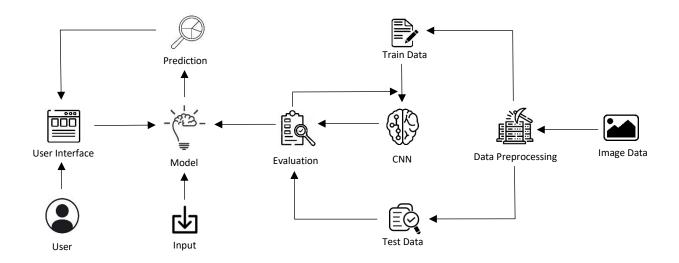


Figure 1.1

CNN Algorithm:

A convolutional neural network (CNN or convnet) is a subset of machine learning. It is one of the various types of artificial neural networks which are used for different applications and data types. A CNN is a kind of network architecture

for deep learning algorithms and is specifically used for image recognition and tasks that involve the processing of pixel data.

There are other types of neural networks in deep learning, but for identifying and recognizing objects, CNNs are the network architecture of choice. This makes them highly suitable for computer vision (CV) tasks and for applications where object recognition is vital, such as self-driving cars, facial recognition and digit recognition.

CNN Algorithm Architecture Diagram:

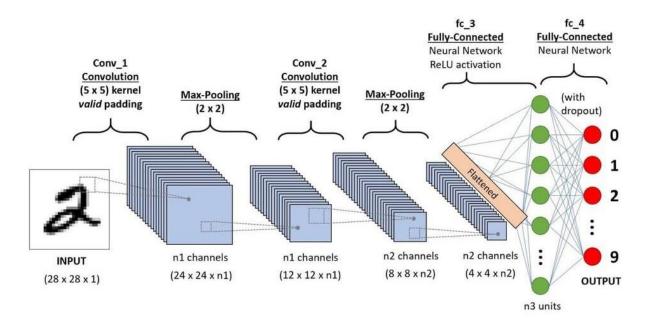


Figure 1.2