

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	15 October 2022
Team ID	PNT2022TMID45157
Project Name	Project - A Novel Method for Handwritten Digit Recognition System
Maximum Marks	4 Marks

Technical Architecture:

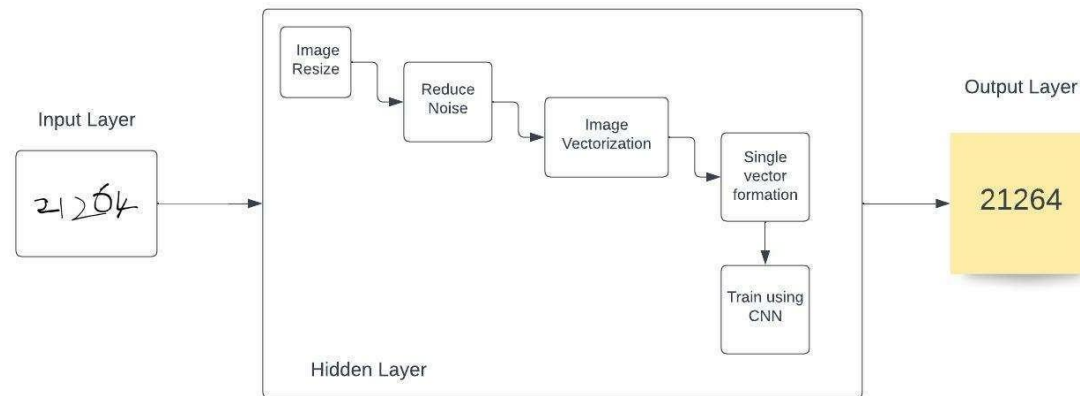


Table - 1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application	React JS
2.	Application Logic-1	Logic for a process in the application	Python

3.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
4.	Machine Learning Model	Purpose of Machine Learning Model	Image Recognition Model (CNN)
5.	Infrastructure (Server / Cloud)	Application Deployment on Cloud	IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Keras, tensorflow, pandas, numpy
2.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Flask Microservice