

Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID39415
Project Name	Project – REAL TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED
Maximum Marks	4 Marks

Solution Architecture:

- Break the image into small image tiles — Similar to sliding window, we can pass sliding window over the entire large image and each result is saved as separate, as a segment of large image as tiny picture tile.
- Feeding each tiny tile into the smaller size neural network — we rarely initialize the parameters with the same values and if not so, then we mark that tile as interesting.
- Save the results from each small tile into a new array — we would not like to misplace the index of the original file.
- We place the results in a grid of the same arrangement as an original image.
- Input: Raw pixel values are provided as input.
- Fully connected layer: Score class is focused, and a maximum score of the input digits is found.

Solution Architecture Diagram:

