

Project Design Phase-I Solution Architecture

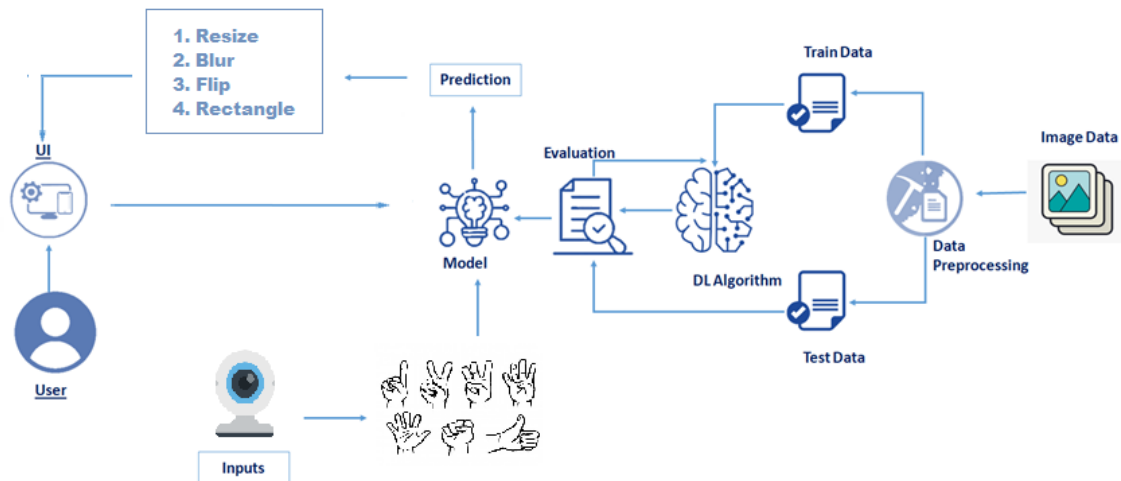
Date	13 October 2022
Team ID	PNT2022TMID50713
Project Name	A Gesture-based tool for sterile browsing of radiology images
Maximum Marks	4 Marks

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.

Solution Architecture Diagram:



This model is pre-trained the images of different hand gestures such as a showing numbers with fingers as 1, 2, 3, 4. Then it uses the integrated webcam to capture the video frame. The image of the gesture captured in the video frame is compared with the pre-trained model and the gesture is identified. If the gesture predicts is 1 then images is blurred; 2, image is resized; 3, image is rotated etc.