IDEATION PHASE

Define the Problem Statements

Hand gesture recognition was imported for human computer interaction. Hand gesture recognition for radiology images used to detect gesture using webcam and to perform exacting action for the gesture.

The gesture cannot be recognized in long distances. The image resolution is low due to quality of webcam. The hand gesture are restricted to lighting backgrounds and image noise.

The gesture should be recognized as pattern rather than images. The gesture interaction should be faster and more convenient. The gesture movements of some fingers are limited.

The gesture should be detected and classified properly to produce exact action of the gesture given as input. The difference between intentional and unintentional gesture should be identified.

I am	I'm trying to	But	Because	Which makes me feel
Doctor	Better Utilization of webcam	Long distance images	Webcam cannot detect more than 10cm	Feel difficult to understand long distance images.
Doctor	Hand Gesture Accuracy	Intentional and unintentional gesture	Model can't recognize hand key points	Overload of work
Doctor	Recognize Hand Gesture	Background overlap with objects	Performance of Recognition Decreases	Which can't get successfull recognition
Doctor	Fast Analysis	Identification of Pattern	Static image can't be able to detect action closely	Inconsistent to detect
Doctor	Scaling	Quality of Image is Suppressed	Resolution of image is low	Difficult to diagnose