Synopsis of Project

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Title: Expression Recognition

**Problem Statement**

In the past few years, the rapid advancement of technology especially in the robotic sector, many autonomous robots have been created in various field. Despite that like every machine there is thing that they are lacking which are emotions. All robots are incapable of having emotions, therefore there is a need for us to program the robot for them to understand the emotions while working with humans.

**Methodology**

The project aims to solve the problem by having the robot to be able the scan the face of human while interacting with them. A set of datasets is being trained into the robot to make them to be able to recognise emotions. From the total of datasets collected 80 percent is being use for training and 20 percent is being used for testing. The facial expression of human is detected whether they are happy or sad so the robot can better understand the state of emotion that the human is currently having.

**Expected results**

It is expected that after the training and testing has been done the robot is able to distinguish between happy and sad emotion.

**Significance of Study**

In hope that with the ability to understand emotion, the robot can work better alongside human