

Progress Report 6

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Introduction

The primary tasks in the internship can be divided into two major functions, which are:

Task 1: The data from the IR Sensors were tabulated, and the mean was calculated for two cases, viz, reflection data and the transmission data. The ratio was then calculated and presented analytically.

Task 2: The app was made to detect color in an uploaded image wherein we could tap on the part of the image for which we would be given the RGB values and an appropriate name for the corresponding color by the application.

Challenges

Task 1: To attach the Bluetooth/ WiFi module to the Arduino, send the data from the sensors directly to the mobile application, and do the analytics and visualization.

Task 2: To accommodate live data feed from the Arduino and plot the data or monitor the value. And also to upgrade the mobile application to detect colors via the camera in live mode.

Future Work

The plan for my upcoming week is

- Attaching the WiFi or Bluetooth module to the Arduino and configure it to send the data to the mobile application.
- To configure the mobile application, intake data from the Arduino and plot it or do the analysis on it as needed.
- Also, to upgrade the application to detect color in live mode directly through the camera.