Name: Mansib Ahmed

CMPSC 497

10/9/2023

Video Capture with Jetbot

Objective: To use a Jetbot and Python OpenCV library to capture and display a video in Jupyter Notebook

Materials:

* Jetbot
* Python OpenCV library
* Jupyter Notebook

Images:

A room with a white board and a chair

Description automatically generated

A screen shot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

Conclusion:

Overall, the quality of the video was not ideal for any kind of color tracking or detection. Moreover, we observed that there was a noticeable amount of lag and slow framerate in the video capture. The lag was about 20-30 secs and the video played in about 10 fps. However, we also noticed that lag and fps drop was significantly reduced once everyone else in the classroom disconnected their robot from the router. Therefore, the issues that were experienced could be with the router’s bandwidth and not necessarily with the robot.