Idea

The idea is to create a system that will ensure the room stays clean. Inspiration for this idea came from :

This will be accomplished by using a machine learning algorithm to analyze pictures of the room taken at periodic increments throughout the day. If the camera detects that the room isn't in a clean state the TV will be turned off.

First test was to ensure that I could control the smart plug with code. I was able to reach my TP Link plug with the python library pyHS100. pyHS100 was installed through pip.

Issues:
When the light goes out it won't work.
Either the lights always have to be on or this will only work during daylight hours.
We could maybe program the system to only have effect during daylight hours.
We could get a lamp to turn on right before the picture is taken to flood the room with light.

If someone is moving through the room or potentially if someone puts their feet up it won't work because there will be objects obstructing the view of the floor.
We could train it to ignore those areas but then it might ignore debris in that area as well.
This is the reason it was probably set up to work on a bedroom.
If someone is sitting on the floor it might not work as well.

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