Capstone

Team Members:

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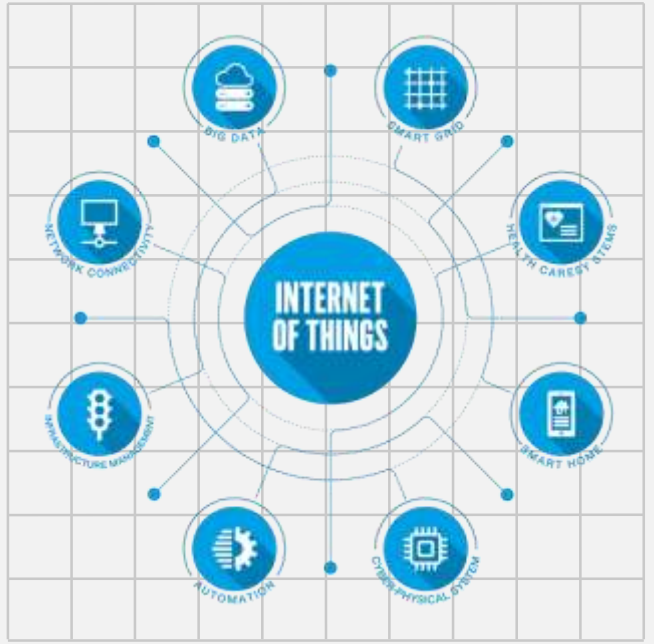
UptoData

Overview

This project aims to use different sensors and machine learning to predict whether or not a room is occupied. The system collects data on various environmental factors in a room using IoT sensors such as temperature sensors, humidity sensors, light sensors, and CO2 sensors.



Proposal-A

Disaster Rescue Assistance

A system that will aid rescue teams and personnel in their efforts to save lives during disasters. The system would function as follows.

If a natural disaster occurs, such as an earthquake or a flood. The system will detect occupancy, which indicates whether or not people have evacuated their residential spaces, and will issue an alert to the team

In addition, if sensors shutdown, we will be able to use the last transmitted reading to efficiently initiate a subsequent rescue effort.

Proposal-B

Airbnb Hosting Assistance

Hosts who rent out their property often experience issues with managing their property in terms of ensuring timely vacancy of the premise or even schedule any maintenance operations that might be required.

The system will assist Airbnb hosts in determining whether or not their guests checked out on time.