**Voice Controlled LED bulb!**

**Introduction:**

Humans and machines interact and communicate with one other in many possible ways, But the most basic tool used by humans to communicate is vocal communication, we have the capability to listen and speak and if the machines could somehow do the same then communicating with them could not get any simpler. Smart watches and smart speakers like [Google home](https://circuitdigest.com/microcontroller-projects/raspberry-pi-smart-home-with-google-assistant), [Amazon Echo](https://circuitdigest.com/microcontroller-projects/raspberry-pi-amazon-echo) etc slowly finding its way into our homes and speaking with machines is slowly becoming a reality.

So, the Google assistant which can be invoked from your Smartphone, or Google home to control the lights by simply using a voice command. It is not that we are super lazy to toggle loads with switches, but at the end of the day it is the sheer joy of getting things done just with our voice commands.

**Features:**

* Energy-efficient
* Works with voice commands
* Controlled from anywhere in the world.

**Specifications:**

Hardware used:

* NodeMCU – 32-bit ESP8266 development board with Wi-Fi SoC.
* Relay module
* One 100 W Bulb

To build home automation application, I used three different platforms

* Google Assistant
* Adafruit
* IFTTT

**Why Voice Controlled LED bulb:**

This system is highly reliable and efficient for the aged people and differently abled person on a wheelchair who cannot reach the switch for the switching ON/OFF the light and are dependent on others.

The future scope for GALB can be huge. There are many fators to improve on to make GALB more powerful, intelligent, scalable, and to become better overall for home automation. For example, controlling the speed of the fan, more number of devices can be integrated, like a coffee machine, air conditioner etc.



