

IOT BASED HOME AUTOMATATION SYSTEM OVER THE CLOUD

*A project report submitted in partial fulfillment of the requirements
For the award of the degree of*

BACHELOR OF TECHNOLOGY IN ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

**K RAGA SUDHA
(19815A0218)**

**CH ROSHINI
(18811A0202)**

**L SWARNA LATHA
(19815A0221)**

**A APARNA
(19815A0237)**

**B GNANESWARARAO
(18811A0201)**

Under the Esteemed Guidance of

**Mr. O GOPINATH
Assistant Professor**



**DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING**

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Permanently Affiliated to Jawaharlal Nehru Technological University, Kakinada, AP)
(An NAAC Accredited Institution)
Tamaram, Narsipatnam, Visakhapatnam-531113

(2021-2022)

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Permanently Affiliated to Jawaharlal Nehru Technological University, Kakinada, AP)
(An NAAC Accredited Institution)
Tamaram, Narsipatnam, Visakhapatnam-531113

**DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING**



CERTIFICATE

This is certify that the project report entitled “**IOT BASED HOME AUTOMATATION SYSTEM OVER THE CLOUD**” is a bonafide work submitted by **K RAGA SUDHA, CH ROSHINI, L SWARNA LATHA, A APARN, B GNANESWARARAO** in partial fulfillment of the requirements for the award of degree of

**BACHELOR OF TECHNOLOGY
IN
ELECTRICAL & ELECTRONICS ENGINEERING**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA

During the academic year

(2021-2022)

Internal Guide

Mr. O GOPINATH

Assistant. Professor
Dept. of Electrical & Electronics Engg.
Narsipatnam.

Dr. T Srinivasa Rao

Professor & HOD

Dept. of Electrical & Electronics Engg.
Avanthi Institute of Engg. & Tech. AIET,
Narsipatnam.

ABSTRACT

The idea behind Home automation is to control home devices with voice. In this project, the Alexa and Google Home requires voice commands. Sinric pro account which is a cloud based free IoT web server used to create virtual switches. The voice commands for Alexa and Google Home have been added through Sinric pro Cloud website. In this home automation, as the user gives commands to the Alexa and Google Home, Home appliances like Bulb, Fan and Motor etc., can be controlled accordingly. The commands given through the Alexa and Google Home are decoded and then sent to the microcontroller, the microcontroller in turn control the relays connected to it. The device connected to the respective relay can be turned ON or OFF as per the users request to the Alexa and Google Home. The microcontroller used is NodeMCU (ESP8266) and the communication between the microcontroller and the application is established via Wi-Fi (Internet).