ALEXA BASED HOME AUTOMATION

A project report submitted in partial fulfillment of the requirements

For the award of the

BACHELOR OF TECHNOLOGY

IN

"ELECTRONICS & COMMUNICATION ENGINEERING"

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<u>CERTIFICATE</u>

This is certify that the project report entitled "ALEXA BASED HOME AUTOMATION" is a bonafide work submitted by **Mummidisetti Ratna Sai Gupta, Peela Yamini, Malasala Narendra Kumar, Rongala Ganesh,** in partial fulfillment of the requirements for the award of

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INTERNAL GUIDE

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EXTERNAL EXAMINER

Abstract

Home automation is becoming popular day by day due to numerous advantages.However, in recent years, the field of Internet of Things (IoT) has seen significant investments made by the research community and the industry. Specifically, the Smart Home space has been a prime focus with the introduction of devices such as Amazon Echo, Google Home, and Samsung Smart Things among others. The growth of an industry results in innovative, economic, and advanced solutions.

In this paper, we focus on making non- smart homes smart and how to build a robust, cost-effective system that can be widely used. We power our system using Amazon Echo, Amazon's cloud services, its speech services. Node MCU microcontroller is used as the hardware component for providing smart features for non-smart homes. The voice command function will be given to control any appliances or devices at home. This will provide a better communication in automated home as compared to normal homes.