

**PROJECT REPORT**

On

**One's Personal Artificial Intelligence:  
'AUXILIARTOR'**

*Submitted For Partial Fulfillment of Award of*

**BACHELOR OF TECHNOLOGY**

*In*

**INFORMATION TECHNOLOGY**

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*By*

ABDULLAH KHALID

ARYAMAN YUGVEER SINGH

*Under the Guidance*

*Of*

ANKIT KHARE



**SHRI RAMSWAROOP MEMORIAL COLLEGE OF  
ENGINEERING & MANAGEMENT, LUCKNOW**

**Affiliated to**

**Dr. APJ ABDUL KALAM TECHNICAL UNIVERSITY, LUCKNOW**



## **DEPARTMENT OF INFORMATION TECHNOLOGY, SRMCEM**

### **CERTIFICATE**

Certified that the project entitled “**AUXILIATOR**” submitted by Abdullah Khalid [1812213006], Aryaman Yugveer Singh [1812213030] in the partial fulfillment of the requirements for the award of the degree of Bachelor of Technology (Information Technology) of Dr. APJ Abdul Kalam Technical University (Lucknow), is a record of students’ own work carried under our supervision and guidance. The project report embodies results of original work and studies carried out by students and the contents do not forms the basis for the award of any other degree to the candidate or to anybody else.

**Er. Ankit Khare**  
(Project Guide)

**Er. Ajay Kumar Srivastava**  
(Head of Department)



## **DEPARTMENT OF INFORMATION TECHNOLOGY, SRMCEM**

### **DECLARATION**

I/We hereby declare that the project entitled “**AUXILIARTOR**” submitted by me/us in the partial fulfillment of the requirements for the award of the degree of Bachelor of Technology (Information Technology) of Dr. APJ Abdul Kalam Technical University (Lucknow), is record of my/our own work carried under the supervision and guidance of Er. Ankit Khare

To the best of my/our knowledge this project has not been submitted to Dr. APJ Abdul Kalam Technical University (Lucknow) or any other University or Institute for the award of any degree.

Abdullah Khalid [1812213006]  
[1812213006]

Aryaman Yugveer Singh  
[1812213030]

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### **PROJECT STUDENTS**

Abdullah Khalid  
Aryaman Yugveer Singh

## **PREFACE**

The project report has been divided into 6 major headings. The topics covered under each are as follows:

**INTRODUCTION:** - This chapter gives our problem definition along with the aims and objectives. This part also includes a section on System Analysis which gives information about the Technical, Economical and Operational Feasibility of our project.

**LITERATURE SERVEY:** - A detailed literature survey is done of the convolutional codes and various parameters related to them.

**METHODOLOGY:** - The methodology proposed to develop the project is explained containing the description of the various modules and the designing section and with software/hardware requirements of the project and the specifications of the simulator used. Also, it contains the implementation of our entire work and the coding done.

**RESULT ANALYSIS & DISCUSSION:** - It contains the results obtained after the simulation is done. It also deals with the testing of the structure using a modalism simulator. Gives various advantages, limitations, and application

**CONCLUSION:** – Contains the conclusion of the project.

**FUTURE SCOPE OF PROJECT** - Give the future scope of the project

## **ABSTRACT**

Recent developments in smart assistants lately attracting the interest and curiosity of consumers and researchers. Speech enabled virtual assistants offer a wide variety of network-oriented services, in this paper we combine some of the most advanced techniques in speech generation and recognition, and artificial intelligence, into a virtual assistant architecture system. The proposed assistant is effective and resource-efficient, interactive and customizable.

Intelligent personal assistant (IPA) is a software agent performing tasks on behalf of a human or individual based on commands or questions which are like chat bots. They are also referred as Intelligent Virtual Assistant which interprets human speech and respond via synthesized voices. IPAs and IVAs find their usage in various applications such as home automation, manage to-do tasks and media playback through voice. This paper aims to propose speech recognition systems and dealing with creating a virtual personal assistant. The existing system serves on the internet and is maintained by the third party. This application shall protect personal data from others and use the local database, speech recognition and synthesizer.

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