A Project Synopsis

On

“AI VOICE ASSISTANT”



Submitted By

Name /Semester/Course/Enrollment No. –

ANSHUL SINHA / III / BCA / A71004819044

PRATHMESH PATIL / III / BCA / A71004819033

NINAD NIRBHAVANE/ III / BCA / A71004819035

AMITY UNIVERSITY MAHARASHTRA

Amity Institute of Information Technology

Amity Institute of Information Technology



Certificate

Certified that the project work entitled “AI VOICE ASSISTANT” carried out by ANSHUL SINHA(A71004819044), PRATHMESH PATIL(A71004819033) and NINAD NIRBHAVANE(A71004819035) from BCA Batch are Bonafide students of Amity

Institute of Information Technology and have successfully completed the Summer Internship Project of 3rd Semester in the academic year 2020.

Subject Teacher’s signature

TABLE OF CONTENTS

DESCRIPTION PAGE NO.

Project Title 1

Introduction 2

Tools Used 3

Module Description 4

Future Scope 5

PROJECT TITLE

“AI VOICE ASSISTANT”

Page - 1

INTRODUCTION

Technology is constantly advancing and changing, and the voice assistant market has also progressed along with it. The last 10 years have utterly transformed how people think about voice technology. From limited uses in just a few outlets, voice assistants are now integrating into every part of people’s life. Early on, text was the only way to interact with an assistant app (typing in a phrase triggered a response). Now, voice has taken over.

Wake words rely on a special algorithm that is always listening for a particular word or phrase so that a phone, smart speaker, or something else can begin communicating with a server to do its job. Wake words need to be long enough to be distinct, easy for a human to speak, and simple for a machine to recognize. This is why we cannot change our wake word to anything we want it to be.  Voice assistants don’t really “understand” what we are saying — they just listen for their wake word and then begin communicating with a server to complete a task.

So basically, this project aims to build an AI Voice Assistant that can understand and take voice commands from the user and complete the given task efficiently. This can help humans in many ways which may include - to handle and assist in phone operation tasks like sending e-mail and play music. So overall, an AI Voice Assistant can help us save our time and make our life easier.

Page - 2

TOOLS USED

SOFTWARE USED: -

● VISUAL STUDIO CODE (for Python Programming)

● ANDROID STUDIO

●WINDOWS 10 HOME

HARDWARE USED: -

● Intel® Core™ i5-8300H CPU @ 2.30GHz PROCESSOR

● 8.00 GB RAM

● 1 TB HDD STORAGE CAPACITY

Page - 3

MODULE DESCRIPTION

This project is all about the creation of an AI voice Assistant named, Andrew which is made by using Python programming language.

We have worked with python in Visual Studio Code, using the Microsoft Python extension.

I have defined various functions like- Speak Function (this function will program our voice assistant to speak something), Take Command Function (this function will allow our voice assistant to take microphone input from the user and returns a string output). Wishme Function (this function will make our voice assistant to wish us according to system time).

And I have mentioned and defined various tasks which include operations like -access YouTube, Play music, access Google site, send e-mail, to tell time and many other operations for my voice command assistant to perform.

The other step includes converting that source code into an Application (App) which we have done by using Android Studio.

So, using Android Studio, the source code is then converted into an android application which can now run on an android smartphone.

Page - 4

FUTURE SCOPE

Artificial intelligence has truly transformed the way voice assistants are used in our daily lives, and we are only beginning to understand how they will be integrated into all of our activities in the years to come.

I see a time when not only will the algorithms understand what is said, but the way it is said.

This AI Voice Assistant application can be modified in the future to determine the mood of the speaker, whether they are in distress, or how strong or weakly they may believe in the statement. It could be used to adjust the response or, in the case of security situation, whether a response is warranted. It may also lead to a means of diagnosing mental state. Ultimately, performance concepts like sarcasm would be identifiable and play a role in the response.

So basically, this AI Voice Assistant application after these modifications, thus can have a very bright future scope which can be beyond limits.

Page - 5