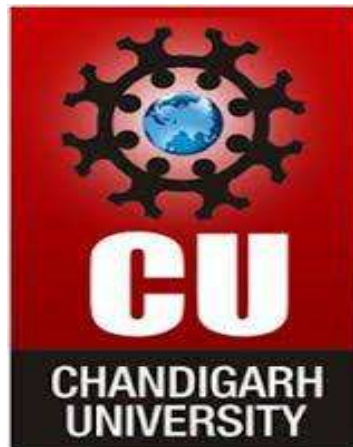


DESKTOP ASSISTANT

Submitted in partial fulfillment of the requirements for the award of degree of
BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING



Submitted to:
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Signature of Mentor:-

Shweta
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Introduction

Well, I had the similar thought before I started making my very own “Desktop” Personal Assistant. Though it is not as capable and high as like Amazon’s Alexa or Google Assistant, Home or Apple’s Siri or JARVIS from Iron Man. Nowadays, People are troubled by typing commands into the computer. Be it procrastination or a busy schedule. Typing is a big obsolete process. The solution to this is that we switch over to an assistant which understands us and do the initial work for us. An assistant is the best replacement for typing commands.

It’s named as Desktop Assistant with Voice Recognition Intelligence, which takes the user input in form of user’s voice and processes it and return the output in various ways like an action to be performed or the search result is spokeed out to the end user.

Feasibility Study

An initial investigation culminates in a proposal that determines whether an alternative system is feasible. It is always necessary to carry out the feasibility study for the development of new project system. The most successful system projects are not necessarily the biggest one rather that truly fulfils user expectations. If the feasibility study is to serve as a decision element, it must answer the following questions:-

- Is there any new and better way to do the job that solves the purpose?
- What are the costs and savings of the alternatives?
- Are there any legal restrictions imposed by the government or any other regulatory body?
- Is the proposed solution economically feasible?
- Does there exists any bottleneck that may turn the process of development futile exercise?

I, thereby keeping in mind the above mentioned guidelines carried out a brief study for the project. This study can be categorized under as:

- **Economical feasibility**
- **Legal feasibility**
- **Technical feasibility**
- **Operational feasibility**
- **Behavioral feasibility**

Methodology/ Planning of work

The part where I tell you what are the basic requirement for this project. You'll need Python 3.6. We'll be using the pyttsx3 package which is a text-to-speech library for Python. The basic reason why we use this is because it works offline. Another basic requirement of this project will be Python's Speech Recognition library. There are other requirements for the project which are listed below; we'll understand them as we go ahead. Inappropriate college description is also conveyed as all terms and conditions of college are not known to students. The overall system design consists of following phases:

- (a) Data collection in the form of user's voice
- (b) Voice analysis and conversion to text
- (c) Data storage and processing
- (d) Generating the task to be done from the processed text output

Module & Team Member wise Distribution of work

Leader: - Vikash Kumar Gupta
UID: - 18BCS6641
Section: - CI_1 G-1

Single Team all modules will be completed by Vikash Kumar Gupta.

Innovations in Project

Of course, one have to look at the human interaction that humans provide in chat service. This isn't an issue with Desktop Assistants because of the wide range of services it provides and it is available 24*7. It would be wrong to say that Desktop Assistant is evolving. Desktop Assistant are more intelligent. Even there are reports that 80- 85% of businesses will be giving out more enhanced Desktop Assistants by 2020.

Software Requirements

- Operating System: Windows 7 or Above
- Front End Programming Language : - Python
- Back End Database : -Python Libraries(pytt3x3)
- Modules Used:- **To be decide**

Hardware Requirements

- Intel Core(TM)2 dual core and above
- 240 GB HD
- Minimum 2 GB RAM
- Standard USB Keyboard and Mouse

- Window-7 or above

Bibliography

Books:-

- Learn PYTHON the HARD WAY(Third Edition)
- Introduction to Machine Learning
- Machine Learning with Python Cookbook
- Eduyear Platform

Website:

- www.we3schools.com
- www.stackoverflow.com
- www.it-ebooks.com
- @coders.eduyear