**A PROJECT REPORT**

**ON**

**JARVIS : A Personal Window Assistant**



Submitted in the partial fulfilment of award of

**Submitted in the partial fulfillment of award**

**BACHELOR OF TECHNOLOGY**

**Degree in**

**Computer Science and Engineering**

**Submitted To: Submitted By:**

**Mr Vikas Srivastav Arvind Kumar**

**Ritesh Kumar**

**DECLARATION**

We do hereby declare that the report entitled “Jarvis-Personal-Assistant” submitted by us to College of **DR K.N Modi Engineering and Technology, Modinagar** in partial of the requirement for the award of the degree of B.TECH in **COMPUTER SCIENCE AND ENGINEERING** is a record of bona fide project work carried out by us under the guidance of **Mr Vikas Srivastav** and Department of Computer Science and Engineering.

**Place : Modiangar** **Arvind Kumar**

**Date : 04 – 12 – 2021** **Ritesh Kumar**

**CERTIFICATE**

This is to certify that the project entitled “**Jarvis: Personal Assistant**” is a bona fide work done by **Mr Arvind Kumar** (1819510002), **Mr Ritesh Kumar**(1807710038), of 7th Semester B.Tech in Computer Science and Engineering from College Of **DR K.N Modi Engineering and Technology, Modinagar** under the guidance of **Mr Vikas Srivastav** inthe partial fulfillment of the requirement of the award for the Degree of B.TECH in **COMPUTER SCIENCE AND ENGINEERING** in College of **DR K.N MODI Engineering and Technology, MODINAGAR.**

**Project Guide:**

**Mr. Vikas Srivastav**

**Department of Computer Science**

**And Engineering**

**Place : Modinagar**

**Date : 04 -12 – 2021**

**(Head of Department)**

**ACKNOWLEDGEMENT**

We had a great experience working on this project and we got to learn a plethora of new skills through this project. However, it would not have been possible without the kind support and help of many individuals. We would like to extend our sincere thanks to all of them. We are highly indebted to the teachers and especially **Mr Vikas Srivastav** for their guidance and constant supervision as well as providing necessary information regarding the project and also for their support in completing the project.

We would like to express our gratitude towards our parents and friends for their kind cooperation and encouragement which help us in the completion of the project.

Place : Modinagar Arvind Kumar

Roll no:1819510002

Date : 04 – 12 – 2021 Ritesh Kumar

Roll no :1807710038

**ABSTRACT**

The project aims to develop a personal-assistant for Window-based systems. Jarvis draws its inspiration from virtual assistants like Cortana for Windows , and Siri for iOS. It has been designed to provide a user-friendly interface for carrying out a variety of tasks by employing certain well-defined commands. Users can interact with the assistant either through voice commands or using keyboard input.

**As a personal assistant, Jarvis assists the end-user with day-to-day activities like general human conversation, searching queries in google, bing or yahoo, searching for videos, retrieving images, live weather conditions, word meanings, searching for medicine details, health recommendations based on symptoms and reminding the user about the scheduled events and tasks. The user statements/commands are analysis with the help of machine learning to give an optimal solution.**

**Keywords :- Personal Assistant, Window Systems, Automation, Machine Learning**

**Contents**

* **Declaration**
* **Certificate**
* **Acknowledgement**
* **Abstract**
* **Introduction**
* **Implementation**
* **Important Libraries that I have used**
* **Functionalities**

**Introduction**

First of all, **What is J.A.R.V.I.S?**In simple words, Jarvis is nothing but a fictional AI system which was first appeared in the Marvel movies. In this project, I tried to make a voice assistant which works like J.A.R.V.I.S.

In the era of 21st century, we all are surrounded with many different kind of technologies. In all of this, Artificial intelligence has a separate fan base. But though its my learning stage in the field of AI, I make one small project which titled as **“J.A.R.V.I.S AI Desktop Voice Assistant Using Python”**. The main purpose to make this project is to automate some tasks and make them easy to perform.

**Implementation: -**

In this, I used the Google API because it provides text-to-speech and speech-to-text functionalities. I used python language for implementation**.**

**Important Libraries that I have used**

* **Pyttsx3: —**Basically, this module is used to convert text to speech in python. We can install this library using “pip install pyttsx3” command. The main advantage of this module is that it works offline.
* **Web browser: —**This is used to display web-based documents on the web browser. This module is built-in in python.
* **Speech recognition: —**As we are building virtual assistant, the necessary thing is that it recognizes user’s voice. We can install this module using “pip install speech recognition” command.
* **Wikipedia: —**This module is used to get the information from Wikipedia or to search something on Wikipedia. We can install this module using “pip install Wikipedia” command.
* **Selenium: —**This module is used to automate the interaction to the web browser from python. We can install selenium module using “pip install selenium” command.
* **Smtplib: —**SMTP (simple mail transfer protocol) is used to send an email or to route an email between servers. Python provides the smtplib module for this functionality. We can install this module using “pip install smtplib”.
* **wolfram alpha** **—**Wolfram Alpha is an API which can compute expert-level answers using Wolfram’s algorithms, knowledge base and AI technology. It is made possible by the Wolfram Language.

**Functionalities**

* We can open different kind of websites like google, stack overflow, you tube, etc.
* We can open applications like Pycharm, Microsoft word, etc. within our system.
* We can send an email with message or an email with attachment also.
* We can play songs and we can also list out all the songs.
* We can also able to login automatically on our Facebook account by just giving an order.
* We can also show short information on a particular subject through Wikipedia.
* The assistant is also able to great us (good morning, good evening) according to whatever time it is.
* we can get answer of any geographical and computational questions like what is the capital of India and computational questions like what is 3+2 etc.