**PERSONAL VOICE ASSITANT USING PYTHON**

**A MINI PROJECT**

**Submitted in partial fulfillment of the**

**Requirements for the award of the degree of**

**BACHELOR OF TECHNOLOGY**

**In**

**COMPUTER SCIENCE & ENGINEERING**

By

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**CERTIFICATE**

This is to certify that the Thesis entitled, **“PERSONAL VOICE ASSISTANT USING PYTHON”** is being submitted by **R. JAYA PRAKASH NARAYANA, P. ANUPAMA,** bearing **Regd. No. 18F01A05C0,18F01A0598,** in partial fulfillment of the requirement for the award of the degree of B.Tech. in Computer Science & Engineering, Jawaharlal Nehru Technological University Kakinada is a record of bona fide work carried out by him under my guidance and supervision. The results presented in this project have been verified and are found to be satisfactory.

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The successful completion of any task is not possible without proper suggestion, guidance and environment. Combination of these three factors acts like backbone to my project titled **“PERSONAL VOICE ASSISTANT USING PYTHON”**.

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**ABSTRACT**

In this modern era, day-to-day life became smarter and interlinked with technology. We already know some voice assistance like google, Siri. etc. Now in our voice assistance system, it can act as a note writer, and search tool and also does some tasks such as screenshots, selfies on the laptop, and much more tasks done by this customized voice Assistant. This project works on voice input and gives output through voice and displays the text on the screen. The main agenda of our voice assistance makes people smart and gives instant and computed results and also automates our routine generalized works. The voice assistance takes the voice input through our microphone (Bluetooth and wired microphone) and it converts our voice into computer understandable language gives the required solutions and answers which are asked by the user. This assistance connects with the world wide web to provide results that the user has questioned. Natural Language Processing algorithm helps computer machines to engage in communication using natural human language in many forms.

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**LIST OF ABBREVIATIONS**

|  |  |
| --- | --- |
| CNN | Convolution Neural Network |
| PCA | Principal Component Analysis |
| ReLu | Rectified Linear Unit |
| UML | Unified Modeling Language |
| OMT | Object-modeling technique |
| **pythonIDLE** | Python’s **Integrated Development and Learning Environment** |
| NUMPY | Numerical Python |
| OPENCV | Open Computer vision |
| GUI | Graphical User Interface |
| HRI | Human Robot Interaction |

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