

# Voice Recognition through Machine Learning

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**Abstract**—This manual is about designing a GUI (graphical user interface) for sending the commands to the bot through Bluetooth.

## 1 GUI FOR BLUETOOTH

- 1.1 Install the module 'Tkinter' using the following command in the terminal.

```
sudo apt-get install python-pil.imagetk
sudo apt-get install python-tk
```

Install the modules PyBluez, time, subprocess using simple "pip install " command.

- 1.2 Download the Bluetooth.png and mic.png files from the following link.

```
https://github.com/Mastan1301/Voice-Recognition-bot/tree/master/Figures
```

- 1.3 Run the following code.

```
https://github.com/Mastan1301/Voice-Recognition-bot/tree/master/codes
```

- 1.4 You will get a list of all the bluetooth devices in your surrounding with their addresses.  
1.5 Change the HC-05 address in the above code.  
1.6 Then run the code. You will get the interface as shown in Fig. 1.6.

## 2 HOW TO USE THE GUI

- 2.1 Click the 'Scan' button to scan for the available bluetooth devices.  
2.2 Click the Bluetooth icon to connect to the bluetoothn device whose addresss is in the code.  
2.3 Click the Mic icon to send the commands.

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Fig. 1.6: The GUI