

# Aid Artificial

Artificial Intelligence, Neural Network, Machine-Learning based Personal Assistant

Blueprint/working principle of the software



AID ARTIFICIAL DATASHEET V2.1

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## Brief of the Project

This project is a self researched based project which is completely based on AI and ML including Neural Network for good understanding of the machine which will help to create a good bond between the user and the machine. It also has the concept of natural language processing (NLP) \*Technology used by Alexa to process data and give response.

Our ultimate goal is to create a buddy for people with medical issue and some serious disease like heart disease, Back injury (kind of people on bed rest), even paralysed patient only if they can talk with the system. This buddy has been trained intensively to give a friendly response to the user not only it will help you in your health but it also has the capability to entertain you with every internet task weather it sending a whatsapp message to your friends or even help you in contacting with youre doctor in case of emergency, watching a youtube video by only giving voice command to the software. It dosent limit till here it would also do home automation for you like automatically turning on AC or fan if the temperature of the room goes high or like turning on the lights with voice command and many more self learned functions.

# Technical Information

The whole system will work on two device principle

1. Portable Computer
2. Arduino Micro controller
3. Sensors

## Portable Computer

The computer will be responsible to run and execute the software and execute the python backend with connecting with the webserver through Django and provide a suitable environment for the with a beautiful UI

\*For making the complete project portable we can use a mini computer known as raspberry pi but as we have issue with our budget so we are running the software on our personal system.

## Arduino Micro Controller

Arduino Board is a microcontroller which needs to be programmed as per our convenience, so we used the board to convert the electrical signals received by the various sensor and form a binary code so that it could be suitable for the ML model to understand and provide results.

## Sensors

We have use variety of medical sensor plus some basic sensor through which we can provide the user accurate result they want

## QnA-

It might come in your mind that what is the difference between the home Assistant (Alexa, Google Assistant) available in market and our project.

- So the thing is we are concern about health of a person and a assistant needed by him for his daily IoT works, so we have created this, it is a total different market place then of home assistant on top of that they don't use Neural network to work in but we do, they are not secure too they usually collect your data to improve their system but we have trained our system with the data which we have collected through binary forming and we also provide a better software where your health can be monitored each and every time with a guidance available for you.

## Idea Visuals

Actually i got the idea 1 year ago on buliding this software as my father is a person who regularly falls ill so i got the idea if i could build this then it could help my father to monitor him as he has a problem for which most of the time he needs to be in bed so i started working on this model past 7 months, as i have intrest in computer science so i have some knowledge about Python and ML so i started morking on that and till the date i worked on the framework and training the model and i also added my co partner who will help me to achieve the target more quickly he has the responsibility to work on some framework. We are aggressively working on the model with a surety of building the project succesfull with a product ready model with market influence.