

PANIMALAR ENGINEERING COLLEGE

(A Christian Minority Institution)

JAISAKTHI EDUCATIONAL TRUST



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An Autonomous Institution, Affiliated to Anna University, Chennai
All Eligible UG Programmes are Permanently Affiliated to Anna University
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Date: 05/01/2022

Sub:- Appointment of nodal officer for Smart India Hackathon 2022- reg.

His/her contact details are as under:

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Problem statement : Developing an Isolated Word Recognition System for Animal voice recognition To Identify The Animal Needs

SIH 2022 Scheme: SMART AUTOMATION

TEAM MEMBERS:

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Further, the Problem Statements for the SIH 2022 is also enclosed herewith for further necessary action.




Signature
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Smart India Hackathon (SIH) 2022- Problem Statements

Problem Statement-1 Developing an Isolated Word Recognition System for Animal voice recognition To Identify The Animal Needs

The Basic concept of voice recognition refers to identifying the speaker, rather than what they are saying. Recognizing the speech can reduce the task of translating speech in systems that have been trained on a specific person's voice or it can be used to verify or validate the identity of a speaker as part of a security process. There are a list of voice recognition systems that are available on the market. The best system can recognize easily a minimum of thousands words. However, they generally need an extra training session during which the system becomes adapted to a particular vocal and accent. Voice recognition programs are used by many physically challenged persons to use their computers more efficiently and effectively. This type of system are called to be speaker dependent and there are other systems which requires the speaker to speak calmly and sharply and part each word with a short gap. These type of systems are called to be discrete speech systems.

OBJECTIVES :

- The primary contribution of this project is to translate the voice frequency of the animals and update the needs as a message for human understanding.
- It receives the voice statement from the animals and translate the animals needs by voice recognition.
- By receiving the voice frequency of the animals the device translate the voice frequency and update their needs to us by messages in app.
- An app will be automated for the voice recognition of animals to human understanding.