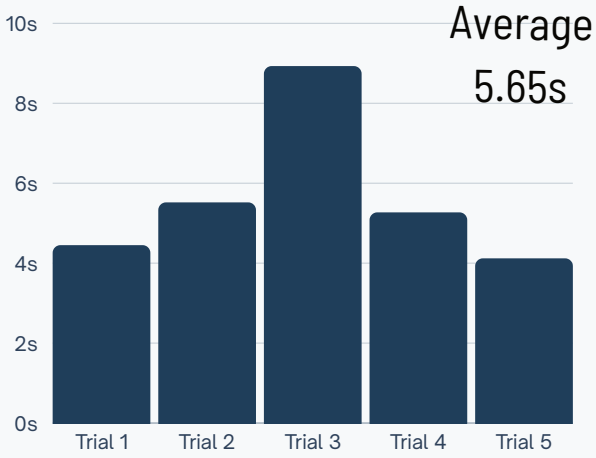
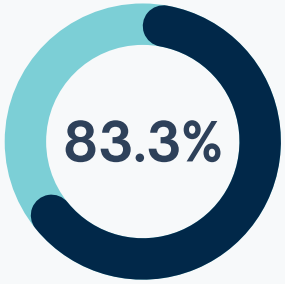
Our Results

Speed of detection



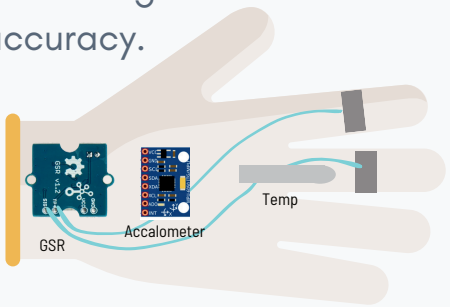
Accuracy of Detection

10 out of 12

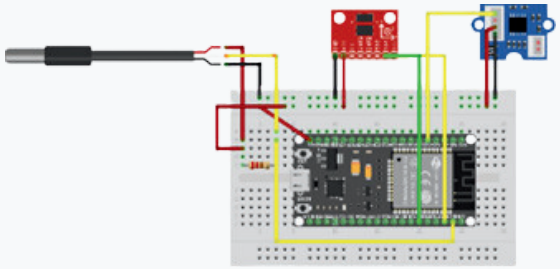


Our Prototype

- **GSR Sensor:**
  - Measures Galvanic Skin Response for stress level detection.
- **Temperature Sensor:**
  - Monitors body temperature variations for additional seizure indicators.
- **Accelerometer:**
  - Detects motion changes associated with seizures, enhancing overall detection accuracy.



Simple 2d Sketch



Circuit Design

Seizure Shield

338

An IOT system that **Monitors, Detects, Warns** generalized epileptic seizure.

Contact Us

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Response System

Enable Warning Mode

The system enables the warning mode in the website with loud sound and custom AI written instructions

Send Warning Messages

The system sends what'sApp message to patient's family, with website link includes: sensors readings, and location

AI powered Chatbot

The website includes an AI chatbot trained on a dataset about seizure first aid; to guide people with how to deal with the patient.

About Us

Seizure Shield is an IoT system designed to monitor factors leading to seizures in real-time, detect seizures when they occur, and promptly alert the patient's family and surrounding individuals. Generalized epileptic seizures can result in severe complications and even death if first aid is not administered within the first few minutes. Therefore, our solution strives to create a safe environment for epilepsy patients worldwid

Portfolio

A4 Poster

Resources