

SAATHI - Self Assessment & Alleviation by Technology & Healthcare Interface

Team 17 - Silicon Labs Entrepreneurs Challenge

Inter IIT Tech Meet 10.0

Description

SAATHI is an end-to-end IoT-based solution to help patients with anxiety spectrum disorders, track their mental health status, manage their cognitive behavior, and help them mitigate their issues by using a Smart wearable wristband and a mobile-based application.

Directory Structure

- **End to end simulation files:** Consists of simulation files, circuit diagrams, codes and the necessary libraries for the MCU. Also included is a demonstration video for the entire implementation.
- **Fall detection:** Consists of scripts for implementing the algorithm for Fall detection.
- **Prototype 3DModel** - Consists of prototype files made on Fusion360.
- **Sleep detection** - Files for implementing the algorithm for Sleep detection.
- **Stress_detection.ipynb** - Jupyter notebook to implement the stress detection algorithm.
- **SAATHI user flow.pdf**- A user flow diagram for the entire technical implementation of SAATHI.
- **Circuit Schematic Image.png** - The circuit schematic image for the entire approach.
- **Business Model Canvas.docx** - Document having the business model pictographics.
- **Anxiety Attack.pdf** - Flow diagram for anxiety attack detection algorithm.
- **Flow_OCD.pdf** - Flow diagram for OCD detection.
- **Important Links.xlsx** - Contains links for the references used for the entire project.
- **Finance Model.xlsx** - Contains data for the finance model of the entire product.
- **SAATHI.apk** - Mobile application for SAATHI ecosystem.