

Studentmeter

December 2023

0.1. Introduction

Learning difficulties affect a lot of students around the world, and studies show that about 1 in 5 students may face some kind of learning challenge. That's a big number! Our project is here to explore these challenges in students, and we're doing it in a cool way—with a special wearable device. This device will help us understand how students feel, students motion Tracking, if they're stressed, and if they're able to focus. We believe that by using this awesome technology, we can learn more about learning difficulties and find better ways to support students. It's all about making education better for everyone!



0.2. What is Studentmeter?

Unveiling 'StudentMeter': Your Smart Learning Companion! Picture this – a super-smart bracelet, our very own wearable device! Think of it as a friendly sidekick for students, packed with special sensors. The GSR sensor plays the role of an emotion detective, understanding how students feel. The Max300102 sensor, keeping tabs on the heartbeat. And then, there's the IMU, keenly observing every move. These sensors collaborate, forming a magical map of emotions, stress levels, and focus, making the learning experience even more awesome!

0.3. Objective of "StudentMeter"

- Knowing student Emotional State
- Measuring Focus Level
- Detecting Learning Difficulties and Psychiatric Illnesses like anxiety, depression, and ADHD
- Individual Support for Suffering Students