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(57) Abstract :
The wrist band known as NICE (Nervousness Indicator in Classroom Environment) determines whether or not a student is experiencing stress based on a number of criteria, including the rate of their heartbeat and the temperature of their body. Utilizing a variety of sensors, such as an electrocardiogram (ECG), galvanic skin response (GSR), and others, it is possible to get this information. This product was developed specifically for kids to assist them in recognizing the myriad of elements that contribute to stress that may be found in a typical school setting. The band is only triggered by an external sensor when a student enters inside a classroom, and as a result, it can only be utilized within the classroom itself and not anywhere else on the school grounds. Every single wristband will be equipped with a one-of-a-kind RFID (Radio Frequency Identification), which will be linked to the appropriate student id. The raw data that is gathered by the band's sensors is transferred to the cloud, where it is first processed by being synced, filtered, and segmented, and so on. The features are then calculated once these preprocessing procedures have been finished, which involves aggregating the information that is contained in each signal segment. In the end, classification is accomplished by creating a mapping between the feature space and the labels that are sought. An alarm will be triggered in the event that the computed stress is higher than the limit level. At the same time, the information will be kept on the cloud. This information may be utilized in the future to detect stress trends among students and assist in the deployment of effective measures to alleviate stress.

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