IOT BASED CHILD SAFETY MONITORING AND NOTIFICATION

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S.NO	TITLE	AUTHORS	ABSTRACT
1	Child Guard: A Child-Safety Monitoring System	Zhigang Gao Ke Yan Huijuan Lu Yanjun Luo Yunfeng Xie	With the rapid development of urbanization and industrialization, more and more children are having safety challenges. To help guardians better monitor their children, the authors present Child Guard, a child safety system based on mobile devices. Children can be warned about potential risks, and their guardians can be informed of location or activity abnormities. Experiments show that Child Guard has higher positioning accuracy and better real-time communication.
2	Child safety wearable device	Akash Moodbidri Hamid Shahnasser	This paper discusses the concept of a smart wearable device for little children. The major advantage of this wearable and can be used in any cell phone. The purpose of this device is to help parents locate their children with ease. Therefore, the focus of this paper is to have an SMS text enabled communication. The wearable device contains the real time accurate location of the child and will also provide the surrounding temperature, UV radiation index. The secondary measure implemented was using a bright SOS Light and distress alarm buzzer present on the wearable device which when activated by the parents via SMS text should display the SOS signal brightly and sound an alarm which a bystander can easily spot as a sign of distress. Hence this paper aims at providing parents with a sense of security for their child in today's time.
3	Smart Child Safety Wearable Device	Bannuru Ranjeeth B. Srinivasa Reddy Y. Manoj Kumar Reddy S. Suchitra B. Pavithra	Child security is the foremost common issue emerging around the world. The Technical point of this task is to have an ordinary correspondence between the kid and parent through the gadget which helps in finding the area, pulse and temperature of the kid utilizing the gadget empowered with the pulse sensor, temperature sensor and GPS tracker. This gadget empowers association between the youngster and parent through the WIFI module cooperation utilizing IoT. The parent can get to the kid data intermittently by interfacing through this gadget. The data is stored into a cloud permanently to keep the track record of old data of the children for further reference. The sensors are activated automatically when they are subjective to the miscellaneous activities.
4	Multi-sensor Wearable for Child Safety	Ushashi Chowdhury	Now-a-days we can see that human life is becoming very fast. Moreover, the city life is getting very busy day- by-day. So, in the daily

		Pranjal Chowdhury Sourav Paul Anwesha Sen Partho Protim Sarkar Shubhankur Basak	busy schedule it is becoming very difficult for the parents to monitor their children closely. This paper discusses about a smart wearable device which tracks the child from time to time to ensure their safety. If any problem occurs it would alert parents through the cell phone so that they can take immediate action. This paper focus on the SMS text enabled communication. The device can detect the child's location, it can detect the body temperature and the surrounding temperature, humidity and also the heartbeat of a child. For the emergency situation, the device would have some measures like an alarm buzzer, SOS light which will notify the bystanders to help the child. So, this paper is all about the safety and security of a child to help them to recover from any type of difficulty.
5	Intelligent Child Safety System using Machine Learning in IoT Devices	Aparajith Srinivasan S Abirami N Divya R Akshya	Child safety and tracking is of utmost importance as children are the most vulnerable. With increasing crime rates such as child kidnaping, child trafficking, child abuse and so on, the need for an advanced smart security system has become a necessity. With this motivation, a self-alerting “INTELLIGENT CHILD SAFETY SYSTEM USING MACHINE LEARNING IN IOT DEVICES” is developed to aid parents to monitor and track their children in real time as an alternate to stay beside them. This system is intended as an everyday wearable device on the child. The system is designed to continuously monitor the location and body vitals of children. This electronic system comprises of an Arduino controller and sensors to detect the changes in parameters such as temperature, BVP (Blood Volume Pulse). The system also uses a GSM and GPS module. Decision Tree Classifier Algorithm is used to detect any distress situation with sensor values as inputs. The location of the victim is traced using the GPS module and is sent to the registered contact numbers as a text message using a GSM module. The novelty of this work lies in the autonomous decision-making process with increased accuracy.