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| **YEAR** | **TITLE** | **AUTHOR DETAIL** | **TECHNIQUE USED** | **FUTURE ENHANCEMENT** |
| 2020 | Smart Helmet 5.0 for Industrial Internet of Things Using Artificial Intelligence | Israel Campero-Jurado 1,† , Sergio Márquez-Sánchez 2,\* ,† , Juan Quintanar-Gómez 3 , Sara Rodríguez 2 and Juan M. Corchado 2,4,5,6 | PPE; OHS; risk detection; naive Bayes; support vector machine; convolutional neural network; deep learning; microcontroller | The helmet knows the location of the user and their interaction with the environment. The helmet can provide data to a user, monitor the actions of the user and conditions. This work is quite interesting since it offers device–user interaction. On the contrary, the advantage of our proposal is that it strives towards the autonomy of the system where decisions are made by the convolutional method. |
| 2020 | DESIGNING OF IOT BASED SMART HELMET | 1.S RISHIDHAR REDDY, 2. K ASHOK, 3. YOGESH NIRMALKAR, 4.S HARI PRASAD, 5.P ABHISHEK | Internet of Things(IoT),Smart Helmet, Cloud Computing; Hypertext Transfer Protocol; Internet of Things,Sensor; alcohol Sensing; | Here our engine cut off feature reduces the chances of fatalities significantly. The smart helmet acts as a virtual policeman keeping the drivers in check and making roads safer. |
| 2020 | Smart Helmet Using IOT | Dr. Vijaya Balpande 1 , Pooja Vaidya 2 , Huma Khan3 , Aishwarya Gotmare4 , Shubham Khadgi5 , Mayur Amrute6 | Headgear, Alcohol Detection, Location Tracking, Fall Detection. | The surveillance feature in the system is helpful for parents for keeping the track of their children’s location. As we are using WiFi module it will send the SMS faster than GPS module |
| Apr 2020 | A Review on Smart Helmet for Accident Detection using IOT | H.C. Impana1,\*, M. Hamsaveni2 and H.T. Chethana | Accidents, smart helmet, IOT, Laws and Regulation | This smart helmet can also be changed to seat belt system in case of four wheelers and can be implemented in future |
| 2020 | NOVEL COVID-19 DETECTION AND DIAGNOSIS SYSTEM USING IOT BASED SMART HELMET | M. N. Mohammed1\*, Halim Syamsudin2 , S. Al-Zubaidi3 , Sairah A.K.2 , Rusyaizila Ramli4 , Eddy Yusuf5 | COVID-19, Coronavirus, IoT Technology, Smart Helmet. |  |
| Mar 2019 | SMART HELMET CONTROLLED VEHICLE | U. Vasudevan1, A.G. Bhavya Rukmini2, S. Dhanalakshmi3, S. Jana Priya4, Sanapureddy Bala Shivani Pal5 | Automation system, Smart Helmet, Accident detection, Helmet detection, SMS alert. | The project can be enhanced by adding Google Glass Technology. Through this technology, biker can see the upcoming road before reaching that particular place. Also, biker can see navigation on it and can alert him while taking sharp turns. |
| 2019 | LIFE SAVING DEVICE: A SMART HELMET | Kshirsagar Rajat1, Fakir Swaleha2, Thombre Shubham3, Prof. Apte S.K4 | Arduino mega2560, Arduino Uno R3, GSM SIM900, GPS receiver, Adxl335, MQ3 sensor, HC05 Bluetooth sensor | We also implement a new feature like Bluetooth controlled bike starter. The project can be increased by adding Google Glass Technology. Also, biker will see navigation and it alert him when taking sharp turns. Further, it can implement on cars also. |
| 2019 | Accident detection system based on Internet of Things (IoT)- Smart helmet | Kabilan M  Monish S.  Dr. S. Siamala Devi | —Camera, Emergency contacts, GPS, Internet of Things, Raspberry Pi, Smart helmet |  |
| 2019 | SMART HELMET AN INTELLIGENT BIKE SYSTEM | Yogita Chandrawanshi1, Smita Khuspare2, Prof.H.P.Chavan3 | - RF module, GSM-GPS module, MQ-3 alcohol sensor, Microcontroller,Ulterasonic Sensor, Accelerometer. | We can implement various bioelectric sensors on the helmet to measure various activity. We can use tiny camera for the recording the drivers activity. It will be used for passing message from the one vehicle to a different vehicle by exploitation wireless transmitter. We have used solar battery for helmet power offer by victimization same power offer we are able to charge our mobile. |
| Feb 2019 | Bikers Protection through Smart Helmet and Stunt Detection | Basil Mir1, Bazila Zain2, Rashid Hamid Dar | Arduino, NRF, GSM, GPS | Apart from RF. Module another type of wireless communication can be achieved. Besides, we can add a buzzer in the helmet and when the speed exceeds some limit the buzzer starts ringing and hence the motorcyclist will be more alert and will slow down the motorcycle once they receive the signal. |