

Review On Smart School Bus Monitoring System

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Abstract: *The safety of school-going children during transportation is one of the most crucial concerns for parents, school administrators, and government authorities. Traditional transportation systems often lack real-time monitoring, incident detection, and immediate communication capabilities. This review paper focuses on analyzing the design and development of Smart School Bus Monitoring Systems that integrate Internet of Things (IoT), GPS, GSM, and sensor-based technologies. By reviewing recent works and methodologies, this paper highlights innovations in accident detection, fire sensing, and emergency alert mechanisms that enhance the overall safety and reliability of school transportation. Future improvements involving Artificial Intelligence (AI), facial recognition, and cloud-based analytics are also discussed to suggest pathways for the next generation of smart school transport systems.*

Keywords: IoT, GPS, GSM, Accident Detection, Fire Sensor, SOS Alert, Cloud Monitoring, School Bus Safety

