

# A Review on Student Tracking System in School Bus using Face Recognition and IOT

Hadawale V. B.<sup>1</sup>, Iskande R. S.<sup>2</sup>, Iskande S. S.<sup>3</sup>, Prof. Pawar S. H.<sup>4</sup>, Prof. Bangar A. P.<sup>5</sup>

Students, Department of Computer Engineering<sup>1,2,3</sup>

Faculty, Department of Computer Engineering<sup>4,5</sup>

Jaihind College of Engineering, Kuran, India

vaishnavihadawale05@gmail.com, iskanderutika@gmail.com, iskandeshraddha@gmail.com

supriya07pingat@gmail.com, abhibangar@gmail.com

**Abstract:** School buses are the main way kids get to school every day. The Student Tracking System in School Bus Using Face Recognition and IoT is a smart idea to make school transportation safer and better. This system uses fancy technology to watch over students while they're on the bus. It uses facial recognition to figure out who's getting on and off the bus. Each student's face is put into the system, and it checks if they're the right person in real-time. The bus also has special devices connected to the internet (IoT) to track where it is in real-time using GPS. This helps parents, school people, and transportation folks see where the bus is and where it's going. The Student Tracking System in School Bus Using Face Recognition and IoT is a super modern solution to make school transportation safer and more efficient.

**Keywords:** Face Recognition, GPS and IoT.

## REFERENCES

- [1] Pham HoangOat, Micheal Drieberg and Nguyen Chi Cuong , Development of Vehicle Tracking System using GPS and GSM Modem , 2013 IEEE Conference on Open Systems (ICOS), December 2 - 4, 2013, Sarawak, Malaysia.
- [2] Raj, J. T., Sankar, J. (2017, December). IoT based smart school bus monitoring and notification system. Proceedings of the 2017 IEEE Region 10 Humanitarian Technology Conference (pp. 89-92). IEEE.
- [3] Viklind, "Experience from an application for safe transport to and from school a step toward SAFEWAY2SCHOOL," International Conference on Telecommunications,2011.
- [4] Sunehra, D., Goud, V. S. (2016, October). Attendance recording and consolidation system using Arduino and Raspberry Pi. In 2016 Inter- national Conference on Signal Processing, Communication, Power and Embedded System (SCOPEs) (pp. 1240-1245). IEEE.
- [5] Kamisan, M.T., Aziz, A. A., Ahmad, W. R. W., Khairudin.N. (2017, December). UiTM campus bus tracking system using Arduino based and smartphone application. Proceedings of the 2017 IEEE 15th Student Conference on Research and Development (SCOREd)
- [6] Manash Pratim Gohain, Speed Governors, GPS must for school buses, The Times of India, February 24,2017.
- [7] Kumar,R, Kumar,H., "Availabilty and handling of data received through GPS device: in tracking a vehicle,"advanced computing Authorized licensed use limited to: Bahria University. Downloaded on September 13,2023 at 11:10:43 UTC from IEEE Xplore. Restrictions apply. conference(IACC),2014
- [8] Awais Ahmed, LBPH based Improved face recognit ion at low Resolut ion UNIVERSITY OF ELECTRONIC SCIENCE AND TECHNOL- OGY OF CHINA 2018 IEEE