

# “EduTrackPro Secure: A Comprehensive, Secure Platform for Managing Records That Ensures Encrypted Data Storage, With Robust Authentication and Authorization Controls by Providing Seamless Communication Between Community”

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**Abstract:** *EduTrackPro Secure is a digital platform designed to modernize and secure the management of educational records in schools and colleges by digitizing student records, assignments, and communication between teachers, students, and parents. It supports both remote and in-person learning environments with tailored modules for each user group. To enhance data security and efficiency, the platform implements advanced measures such as the Blowfish encryption algorithm, utilizing a 128-bit salt and a 128-bit hash value for secure data storage and transmission, along with Brotli, a data compression algorithm by Google, to optimize data storage and reduce bandwidth usage while safeguarding academic and personal records.*

**Keywords:** Secure, Data Transmission, Compression, Remote, Control

