# BLOCKCHAIN-BASED EMPLOYEE CREDENTIAL VERIFICATION SYSTEM: A REVOLUTIONARY APPROACH TO WORKFORCE VALIDATION

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**Abstract.** Blockchain-based employee credential verification systems take a revolutionary approach toward the verification of workforces by providing safe, decentralized, and transparent means of qualification and work experience verification.

Traditional verification methods involve third-party intermediaries, causing delays in time spent, making them inefficient, and vulnerable to fraudulent credentials. The blockchain technology helps put away employee credentials on an immutable ledger so that records cannot be tampered with, and employers can access and verify those instantly.

The system automatically verifies the process through smart contracts, reducing burden on administrations and negating the role of intermediaries. Additionally, it raises not only the security of data but also enables the rights of the employees to control their data. They can selectively share the credentials with prospective employers. However, it still struggles with issues of scalability and integration with an already existing HR system alongside user adoption.

However, a blockchain-based approach has it to great effect simplify the verification process for credentials, increase trust, and minimize fraud ulent claims in hiring.

**Keywords:** employee credential verification system; workforce validation; block chain technology