

Teach Wave: Learn Locally, Grow Globally

P. Soujanya, CH Madhusri, P Sai Mahadev, R Rithvik

Assistant Professor, Information Technology

Students, Information Technology

ACE Engineering College, Hyderabad, India

chmadhusri1212it@gmail.com

Abstract: *It presents a decentralized tutor-connection platform leveraging blockchain technology to ensure transparency, security, and seamless interaction between users, tutors, and administrators. The platform offers distinct modules for each user type. Users can register, log in, select a location, and view and connect with tutors based on proximity. Tutors can register, log in, and manage their connections, while administrators can log in to manage tutors and view users. The frontend is developed using HTML, CSS, and JavaScript, while the backend integrates Python and Django with Ganache to simulate a local Ethereum blockchain environment. This ensures data integrity, tamper-proof logs, and a trustless system where all interactions are verifiable. The proposed system simplifies tutor discovery and communication while providing a secure infrastructure through blockchain for education-related services.*

Keywords: Blockchain, Tutor-Student Platform, Decentralized Application, Educational Services, Django, Ganache

