***A Project Report***

***On***

**Block-Vote- Blockchain-Based E-Voting System**

Submitted for partial fulfillment of the requirement for the degree of

***Bachelor of Engineering***

**(Computer Science & Engineering)**

***Submitted By:***

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**Under the Guidance of**

*Prof. K.P. Barabde*

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**Department of Computer Science &Engineering**

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**Akola.**

**2022-23**

Certificate

*This is to certify that the project entitled*

**“Block-Vote – Block-chain Based E-Voting System”**

*is a bona fide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati*

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*in the partial fulfillment of the requirement for the degree of* ***Bachelor of Engineering*** *in* ***Computer Science & Engineering****, during the academic year 2022-23 under my guidance*.

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**ACKNOWLEDGEMENT**

It is a matter of great pleasure to highlight a fraction of the knowledge, we acquired during my technical education through this project. This would not have been possible without the guidance and help of many people. This is where we have the opportunity of expressing gratitude from the core of our hearts.

This project would not have been successful without enlightened ideas, timely suggestions, and the keen interest of my respected Guide **Prof. K.P. Barabde**. Being on the same line we express my deep sense of gratitude to ***Dr S. L. Satarkar***, Head of Department (C.S.E.). we would like to thank ***Dr. S. K. Deshmukh*** Principal of our institution for providing the necessary facilities during the period of working on this project work.

Thanks to all the colleagues and friends who knowingly or unknowingly helped me during this work.

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**ABSTRACT**

Block-Vote is an innovative project that aims to revolutionize the electoral process using blockchain technology. It develops a secure and transparent E-voting system, leveraging React to create a user-friendly website. Through blockchain integration, votes are recorded on a distributed ledger, ensuring transparency and resistance to tampering. The decentralized nature of the system enhances security by eliminating the need for a central authority. Citizens can conveniently register, authenticate, and vote using the React-based website from any internet-connected device. Real-time updates on voting statistics promote transparency and inclusivity, allowing citizens to track the progress of the election.

Block-Vote addresses challenges such as fraud, tampering, and low voter turnout in traditional voting systems. By leveraging blockchain technology, it enhances the security, transparency, and accessibility of the electoral process, fostering a more participatory democracy.

Rigorous testing ensures the reliability and accuracy of the Block-Vote implementation. User registration, vote casting, result calculation, and auditing scenarios consistently demonstrate the system's robustness.

The project's findings suggest significant potential for Block-Vote to impact India's voting system positively. By utilizing React and blockchain technology, it provides a scalable, secure, and user-friendly platform for citizens to exercise their democratic rights. The system enhances trust, promotes transparency, and addresses challenges in traditional voting systems, empowering citizens and strengthening the democratic process in India

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