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Online Voting Using Face Recognitions and OTP Verification

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Abstract: *In the digital era where hacking and by passing a system is easy, tampering of data is always possible leading to bad situations. Face Recognition is used to store data which is near impossible to change or tamper with as it is very secure in nature. Voting as a process in any nation is an essential event and if votes get miscalculated by any external source it will be harmful. To avoid such kinds of situations and making it more comfortable Face Recognition technology comes in acknowledgment. This paper proposes a decentralized national e-voting system based on Face Recognition technology. It includes an admin panel to schedule the voting, manage candidates and declare the results. The web application will provide the users with an interface to enter their Aadhar card ID (text input) and a photo of themselves at the time of voting. The eligibility of the voter will be checked at the time they enter their Aadhar card ID. Eligible voter's phone numbers will be verified via One Time Password (OTP). After voter verification, individual voters will be considered eligible for voting. During voting, voters will be monitored through a webcam/front camera. The votes will be stored in a Face Recognition and any tampering would be detected easily. The address and the corresponding constituency will be checked in the backend. Voting results will be declared on a specified date and will be handled by the admin. The results will be displayed graphically with various options to choose from and will also include past results and statistics*

Keywords: Voting, OTP, Face Authetication, Security

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