

TECH-DRIVEN SOLUTIONS FOR UNDERTRIAL PRISONERS IN INDIA

A PROJECT REPORT

Submitted by,

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Under the guidance of,

Ms. Rohini A

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

At



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

PRESIDENCY UNIVERSITY


BENGALURU

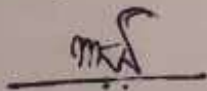
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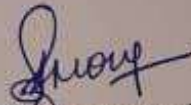
**PRESIDENCY UNIVERSITY
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CERTIFICATE

This is to certify that the Project **"TECH-DRIVEN SOLUTIONS FOR UNDERTRAIL PRISONERS IN INDIA"** being submitted by **DARISI PHANI BALA JASWANTH, KASTURI DEEPAK, REDDY MASU TEJA, YAGANTI PRAVEEN** bearing roll number: 20211CSE0125, 20211CSE0112, 20211CSE0114, 20211CSE0122 in partial fulfillment of the requirement for the award of the degree of **Bachelor of Technology in Computer Science and Engineering** is a bonafide work carried out under my supervision.


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DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **TECH DRIVEN SOLUTION FOR UNDER TRIAL PRISONERS IN INDIA** in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Engineering**, is a record of our own investigations carried under the guidance of Ms. **Rohini A, Assistant Professor, School of Computer Science Engineering, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

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ABSTRACT

The prison system in India faces significant challenges related to overcrowding, inefficiency in administration, security concerns, lack of transparency, and limited access to legal aid and rehabilitation programs. Traditional prison management methods, which heavily rely on manual processes, paper-based records, and outdated systems, result in operational inefficiencies, delays in legal proceedings, and inadequate prisoner rehabilitation. The integration of modern technology in prison management presents an opportunity to address these issues, ensuring enhanced governance, improved security, streamlined processes, and better inmate welfare. This project aims to develop a comprehensive tech-driven prison management system leveraging cutting-edge technologies such as React.js, Java, VS Code, and Expo Go for mobile applications.

The proposed system focuses on digitizing inmate records, automating parole and legal processes, implementing AI-driven surveillance, and enhancing communication between prisoners, authorities, and legal representatives. One of the critical aspects of this project is the development of a web-based platform that enables prison authorities to efficiently manage prisoner data, monitor behavioural patterns, and allocate resources effectively. Additionally, a mobile application will be deployed to provide real-time updates to prisoners, their families, and legal advisors, improving accessibility to case status, visitation schedules, and rehabilitation programs.

A significant advantage of this tech-driven approach is the integration of artificial intelligence (AI) and biometric authentication to improve prison security. AI-powered surveillance systems can analyze inmate behaviour, detect suspicious activities, and alert authorities in real-time, reducing security risks. Biometric verification, including facial recognition and fingerprint scanning, can prevent identity fraud and unauthorized access within prison facilities. Furthermore, the system incorporates blockchain-based secure record-keeping to ensure data integrity and prevent tampering.

Another major component of this project is the introduction of digital legal aid services. Many prisoners, particularly those from underprivileged backgrounds, struggle to access legal representation and track the progress of their cases. The implementation of AI-driven chatbots and automated case tracking can significantly improve the efficiency of legal aid, reducing case backlogs and ensuring timely interventions. Moreover, automated parole evaluation systems will assist judicial bodies in making data-driven decisions regarding sentence reductions and parole approvals.