

# **MEDI CARE**

## **ABSTRACT**

The Medicare app leverages machine learning to provide a comprehensive and user-friendly solution for medicine identification and awareness. Using a mobile device camera, users can scan medicines to instantly access vital information such as composition, usage, side effects, and manufacturer details. This ensures safer medicine consumption, reduces the risks of counterfeit drugs, and fosters better healthcare management. By promoting drug verification, improving trust in medication, and enhancing accessibility, the app contributes to Sustainable Development Goal (SDG) 3: Good Health and Well-Being. Additional features like prescription tracking and medication scheduling help users adhere to treatment regimens, promoting improved health outcomes. Designed with accessibility in mind, the app empowers individuals, including those with limited medical knowledge, to make informed healthcare decisions.

The app's primary objectives are to simplify medicine identification, increase medication awareness, and enhance patient safety. Users can effortlessly scan medicines using their device's camera to recognize and obtain detailed information about them, including their composition, uses, side effects, and manufacturer details. By improving awareness and reducing the risks of counterfeit or incorrect medicine consumption, the app ensures informed decision-making and safer healthcare practices. Additionally, it promotes healthcare accessibility by providing a user-friendly platform that addresses the needs of individuals with minimal medical knowledge, fostering a healthier society. The app offers a range of functionalities designed to enhance medication management. Users can scan medicines for instant identification and access detailed information about their usage. The app allows users to upload and track prescriptions, helping them maintain adherence to treatment plans. Features like medicine reminder alerts ensure timely consumption, while stock and refill alerts notify users when supplies run low. Personalized user profiles store medicine history and preferences, providing a tailored experience. Developed using React Native for the frontend, Node.js and Express.js for the backend, and MongoDB for database management, the app integrates machine learning models built with TensorFlow or PyTorch to deliver accurate and efficient medicine identification. The standout feature is the seamless integration of advanced machine learning with practical functionalities, making the app an innovative tool for improving healthcare accessibility and safety.