IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 2, May 2025
Impact Factor: 7.67

Face Recognition with Text-To-Speech (TTS) System for Visually Impaired Peoples

Mrs.S. Radhika[1], A. Arockia Wilson[2] , R. Yokesh[3]
Assistant Professor, Department of Information Technology[1]
Students, Department of Information Technology [2, 3]
Dhanalakshmi Srinivasan University, Samayapuram, Thiruchirapalli, Tamilnadu, India

Abstract: *The Face Recognition with Text-to-Speech (TTS) system for visually impaired individuals aims to enhance independence and social interaction by providing real-time identification of people through facial recognition, followed by audible feedback via TTS. By integrating a database of known faces, ensuring accurate recognition under various conditions, and providing multilingual support, the project seeks to create a user-friendly, accessible solution that improves the daily lives of visually impaired users, helping them navigate social, work, and public spaces more effectively. This project aims to empower users by providing them with real-time auditory feedback about the people around them, helping them identify family, friends, and colleagues without relying on sight. By leveraging advanced technologies like face recognition and TTS, the system seeks to bridge the accessibility gap, enabling visually impaired individuals to interact with the world more confidently and autonomously, fostering a sense of inclusion and autonomy in their everyday lives. In today's digital era, assistive technologies play a crucial role in enhancing accessibility for visually impaired individuals. This project presents a **Face Recognition with Text-to-Speech (TTS) System**, designed to help visually impaired users identify people in their surroundings through auditory feedback. The system leverages **deep learning-based face recognition** to detect and recognize individuals from a live camera feed. Once a face is identified, the corresponding name or a predefined description is converted into speech using a **Text-to-Speech (TTS) engine**, enabling seamless communication and navigation*

Keywords: Face Recognition with Text-to-Speech.

DOI: 10.48175/IJARSCT-26275