

ADVANCED BLIND HELPER APP USING ANDROID STUDIO

Kannagi L¹, Dr. Prakash P², Janani U³, Lavanya K P⁴, Monalisa B⁵, Preethi S⁶, Madhumitha P⁷

¹ Assistant Professor ^{3,4,5,6,7} Student, Department of Computer and Communication Engineering,
Sri Sairam Institute of Technology

² Associate Professor, Department of Electronics and Communication Engineering,
Sri Sairam Engineering College

People with visual impairments suffer in unfamiliar environments on their own without assistance. With the use of modern technologies, assistance can be given to those who are visually impaired. The objective of this project is to use text, image, and machine learning along with artificial intelligence to offer aid to individual who are unable to see. The concept is implemented as a mobile application with a distinct emphasis on image recognition, voice assistant, etc. Additionally, the software may help users identify objects in their daily lives with voice commands and can perform text analysis to identify text in hard copies. Additionally, the software may help users identify objects in their daily lives Text analysis can be carried out using voice commands. to identify text in hard copies. It will be a productive method for those who are visually impaired to use technology to connect with the outside world and take use of its possibilities. This study suggested a deep learning-based object detection system for the visually impaired. It is uncomfortable for blind persons to read and write. Therefore, we are creating an application that will allow blind users to just tap the screen to read printed text utilizing a speech engine and a camera. The application can be used with little effort on the part of the user in daily life. The need for voice recognition algorithms has grown significantly with the rapid expansion of wireless communications. Your commands are heard by the application, which then responds with voice commands by talking.