

# Voice Assistant for Blind Person

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**Abstract:** *This paper presents a comprehensive study on the design, implementation, and evaluation of a voice assistant system tailored specifically for visually impaired individuals. With the proliferation of voice-enabled devices, there exists a promising opportunity to empower visually impaired users through natural language interaction. Our proposed system incorporates advanced speech recognition, natural language understanding, and synthesis techniques to provide intuitive and efficient communication channels. Additionally, we address the unique challenges faced by visually impaired users, such as contextual understanding, accessibility, and usability. Through user studies and evaluations, we demonstrate the efficacy and usability of the proposed system, highlighting its potential to significantly enhance the independence and quality of life for visually impaired individuals in various daily tasks and activities.*

**Keywords:** voice assistant system