

WALKWITHME

Assistive Navigation and Daily Support
for Visually Impaired Individuals



The Problem



Visually impaired individuals can face challenges in navigation and understanding surroundings



Our Solution

WalkWithMe is a mobile app designed to provide guidance, real-time environmental awareness and practical daily support features



Key Features



Real-Time Detection

Detects obstacles and hazards around you and guides you indoors.



What's in Front of Me?

Describes your surroundings using AI.



Outdoor Navigation

Receive voice navigation with obstacle warnings for your desired destination.



Call Nearest Taxi

Finds and calls the taxi nearest to you.



Share Location

Share your live location with saved contacts.



Workflow

Input

Microphone, camera and GPS collect user and environment data.

Modules

Vosk handles speech input, MiDaS and ToF sensor provides depth information, Navigation logic plans optimal route.

Analysis

The system interprets commands, surroundings and route to detect hazards and informs the user

Feedback

Voice guidance, audio cues and haptic feedback keep the user informed and safe

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