

Emotion detection to enhance communication

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Real time language translation for sign language

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Text to speech for the visually impaired

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Communication

AI powered speech to text for live conversations

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Chatbots for 24/7 accessibility support

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AI powered navigation for wheelchair users

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Drones for delivering essentials to hard-to-reach areas

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Smart devices designed for obstacle detection

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Mobility

Virtual assistance for route planning

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AI driven autonomous vehicles for independent travel

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Voice automated commands for web browsing

Sakthi Thanigai

Custom screen readers for digital interfaces

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AI to simplify UI/UX for disabled users

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Digital Interaction

Gesture recognition for hands free device control

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Personalized recommendations for accessible apps and tools

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AI powered emergency alert systems

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Real time object recognition for visually impaired users

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Adaptive learning platforms for education

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Real Time Assistance

Instant accessibility adjustments (ie. font size, color contrast)

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Wearable health devices for monitoring and notifications

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Open source AI tools for affordable solutions

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Crowdsourcing platforms to fund assistive AI development

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AI driven manufacturing to reduce device costs

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Cost Accessibility

Government partnerships for subsidized technology

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AI to analyze cost-efficiency of accessibility measures

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