



# Sense Vision AI

## Accessible Learning Tool



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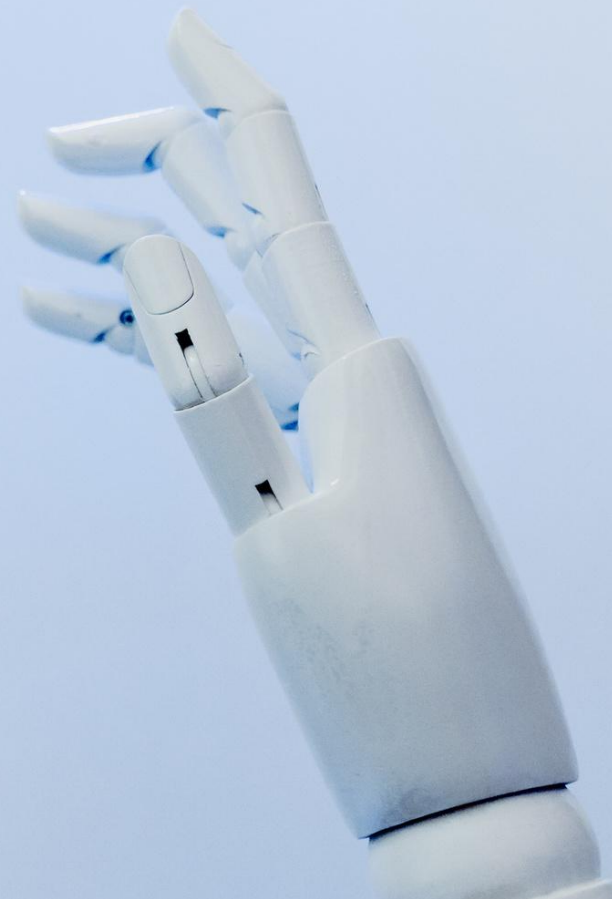


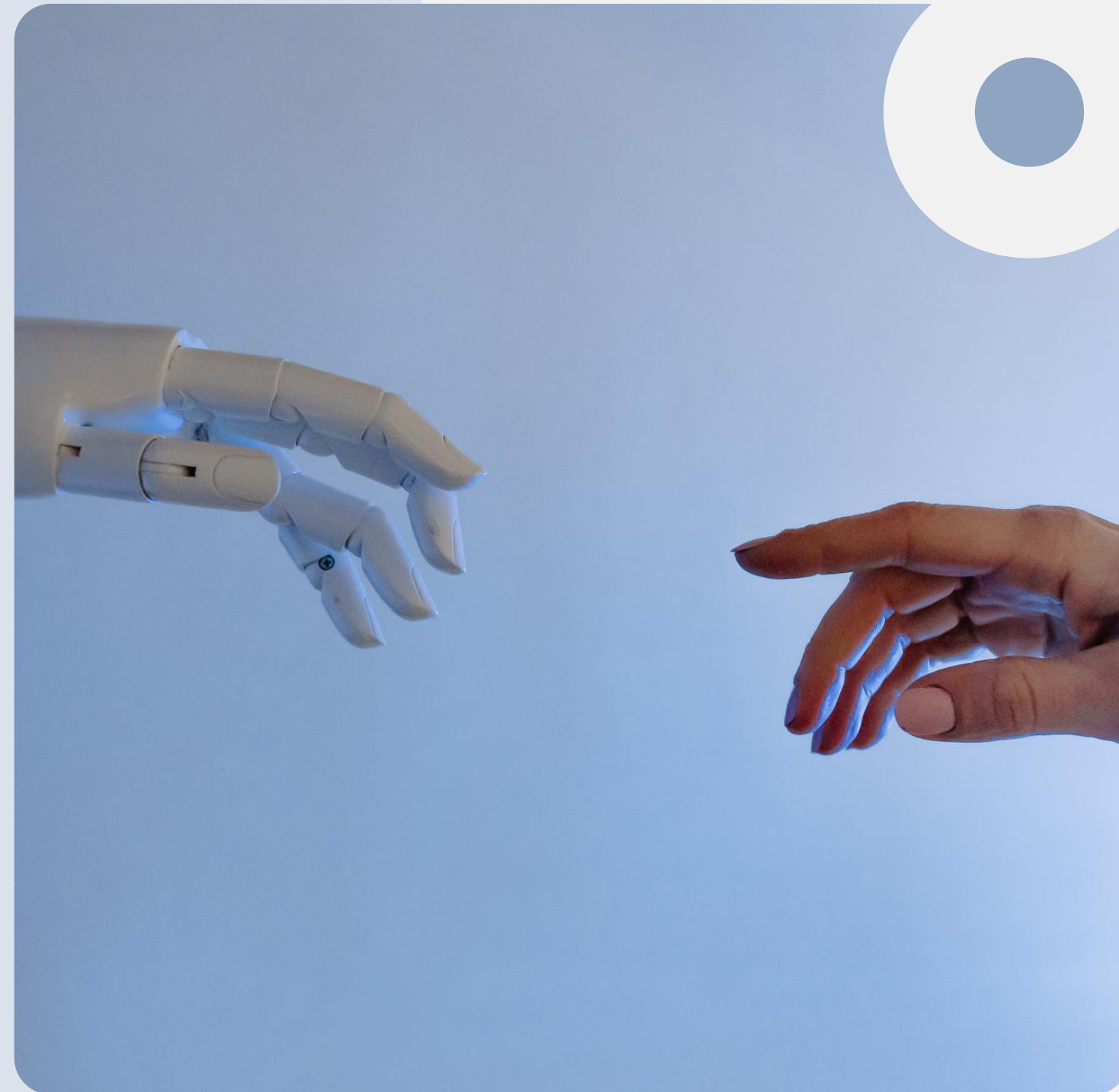
WHERE INNOVATION  
MEETS OPPORTUNITY.

Artificial Intelligence (AI) is no longer just assistive technology—it's a transformative force empowering visually impaired learners with accessibility, independence, and equal opportunities in education.

# Problem Statement

- Challenges faced by visually impaired learners.
- Lack of accessible, affordable, intelligent tools.





## Challenges:

Lack of accessible, affordable, intelligent learning tools for visually impaired..

## Solution

- *VOICE-FIRST, MULTILINGUAL AI ASSISTANT.*
- *OCR + TTS FOR DOCUMENTS.*
- *IMAGECAPTIONINGFOR DIAGRAMS/GRAPHS/MAPS.*
- *EMOTION-AWARE SPEECH + VOICE COMMANDS.*





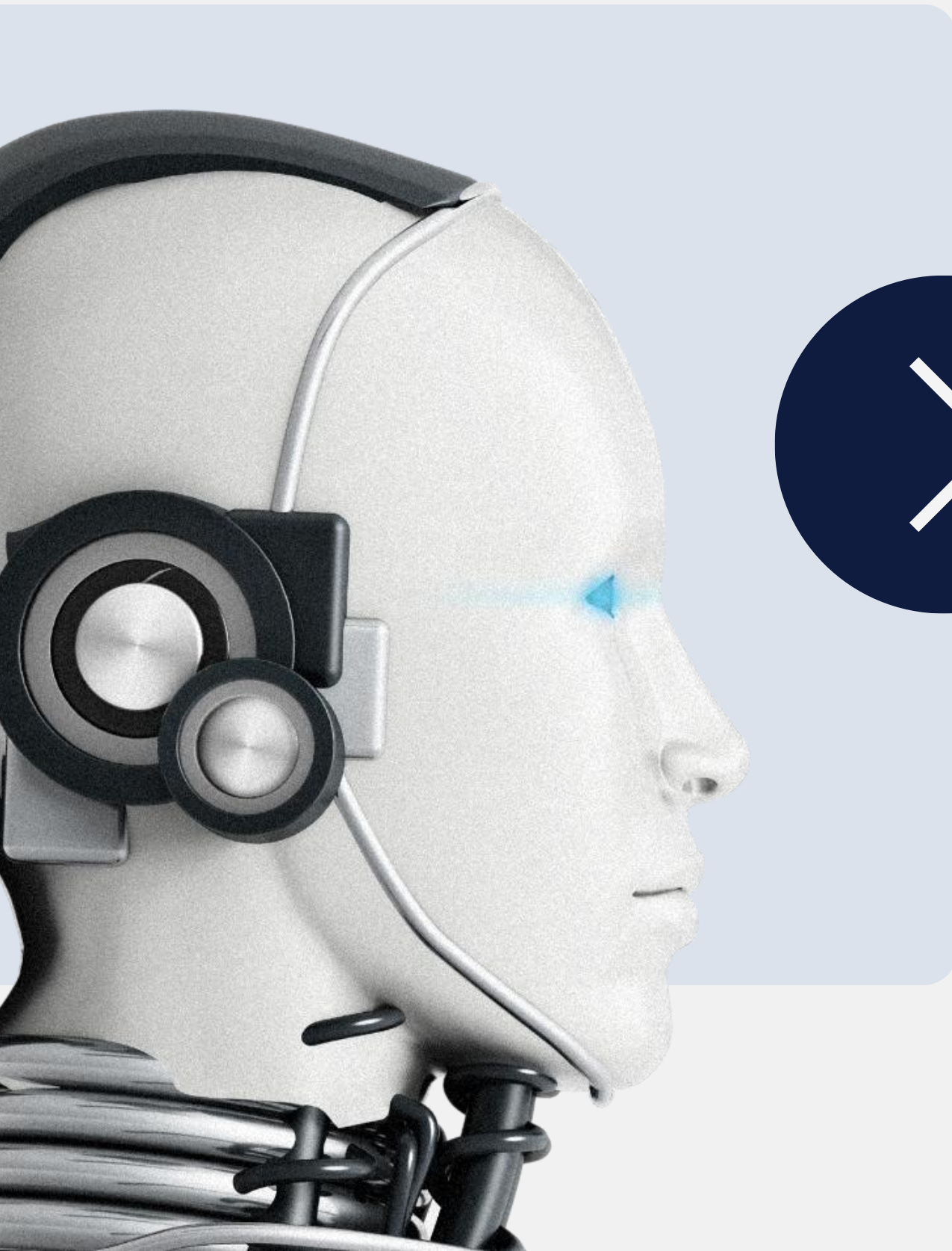
# Unique Value Proposition (UVP)

- Multilingual support (English, Hindi, Telugu).
- Automatic camera detection + hands-free use.
- Accessibility-first design (WCAG standards).
- Affordable, scalable for schools, NGOs, libraries.
- Empowers independent learning for visually impaired students.

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# Technical Approach

- Frontend: React/Next.js .
- Backend: Node.js + Express.
- OCR: Google Vision OCR.
- TTS: Google Cloud TTS.
- AI Reasoning: Google Gemini
- Image Captioning: BLIP.

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# Feasibility and Viability

## Technical

PROVEN AI MODELS  
(OCR, TTS, CAPTIONING)  
INTEGRATED.

## Financial

LOW-COST  
DEPLOYMENT WITH  
CLOUD APIS.

## Market

39M VISUALLY  
IMPAIRED IN INDIA,  
NEED FOR  
AFFORDABLE TOOLS.

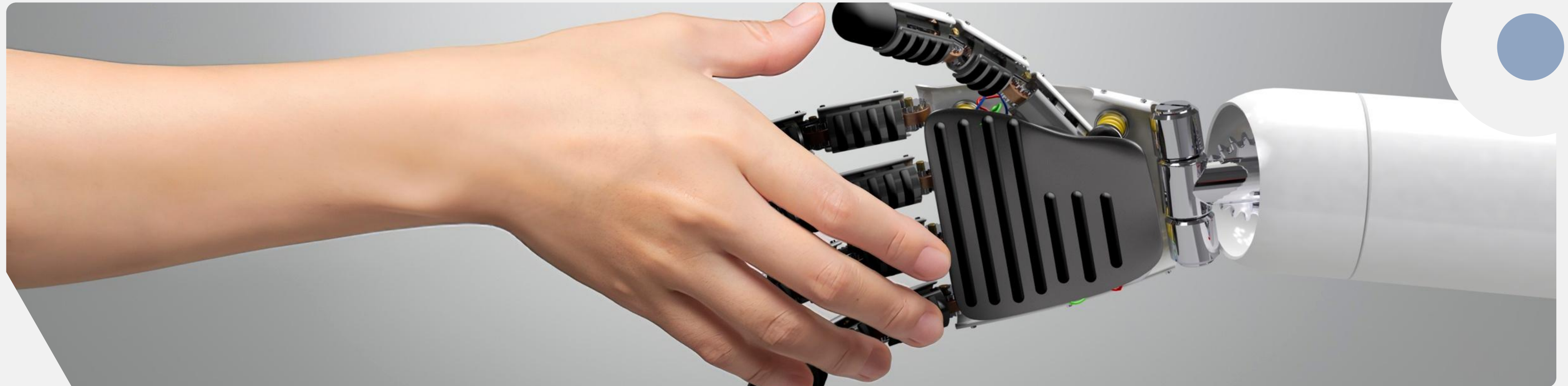
## Operational

CAN SCALE TO  
INSTITUTIONS,  
NGOS.

## Risks & Mitigation

OFFLINE SUPPORT  
IN ROADMAP,  
TRAINING FOR  
ADOPTION.





# Impact & Benefits

- Social: Independent learning, inclusivity, empowerment.
- Economic: Affordable solution, scalable across communities.
- Educational: Equal access to digital resources.
- Future Scope:
- More Indian languages.
- Offline mode.
- Integration with Braille devices.





# THANK YOU

Accessibility is not just inclusion—it’s innovation. By empowering every learner, we don’t just build tools, we build a future where education has no barriers