



Sense Vision AI

Accessible Learning Tool



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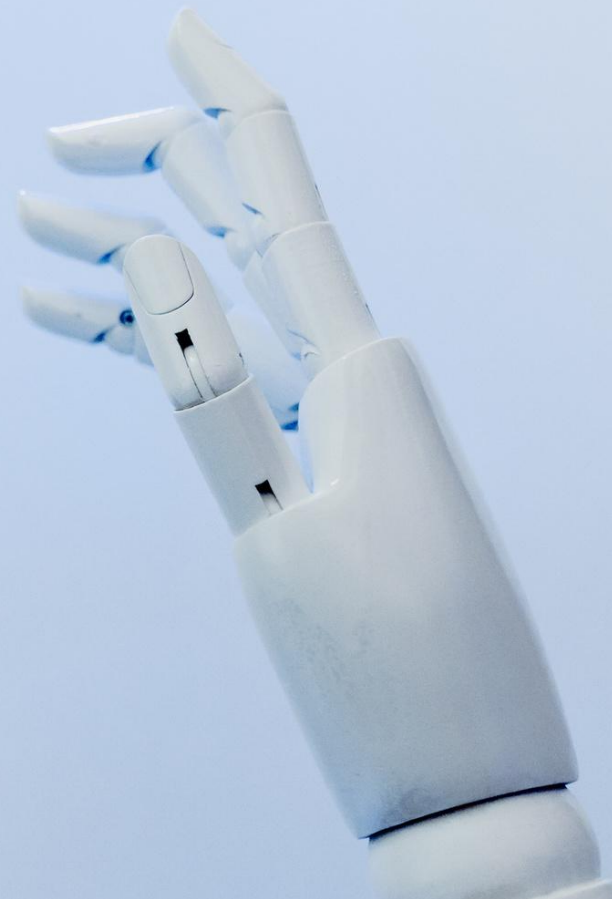


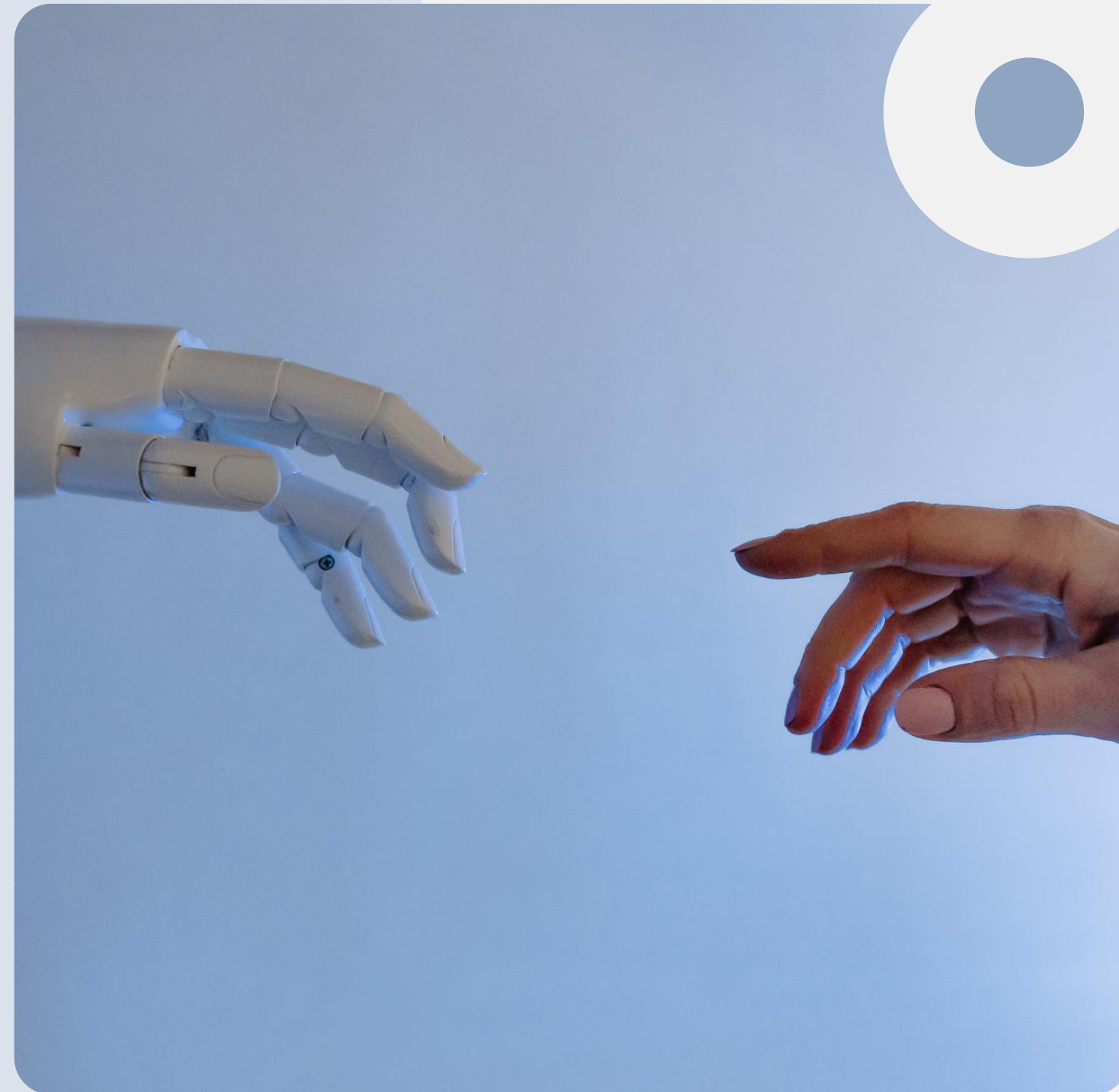
WHERE INNOVATION
MEETS OPPORTUNITY.

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



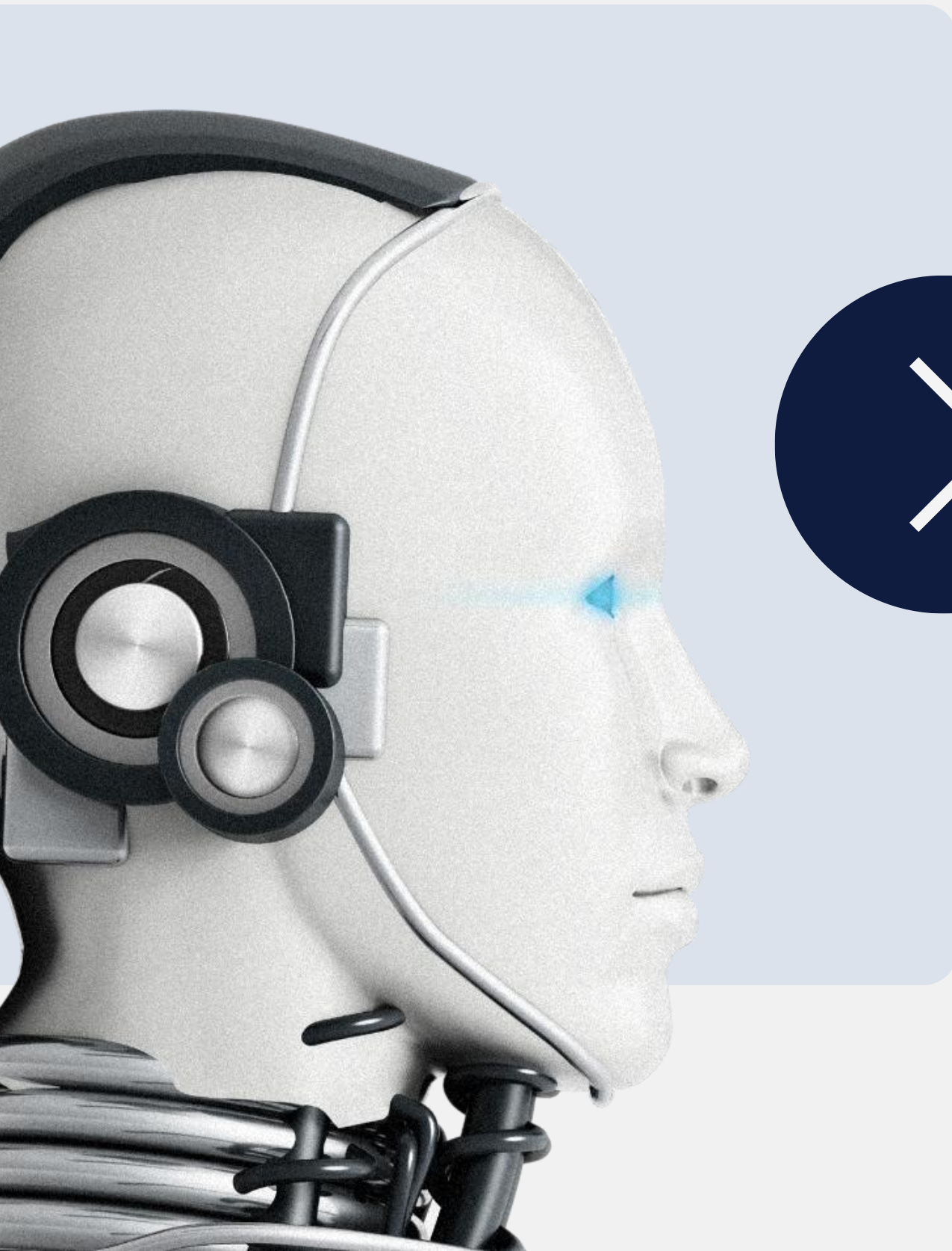


Unique Value Proposition (UVP)

- 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 (WCAG accessibility).
- Backend: Node.js + Express.
- OCR: Google Vision OCR.
- TTS: Google Cloud TTS.
- AI Reasoning: Google Gemini
- Image Captioning: BLIP.
- Camera/Gesture: Media Pipe.

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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