

1           **Generative AI for Teachers with Vision Impairments in the Global South: A**  
2           **Bridge Too Far?**

3  
4           MANOHAR SWAMINATHAN, Microsoft Research, India  
5  
6           TARINI NAIK, Microsoft Research, India  
7

8           Multimodal generative AI offers transformative opportunities for inclusive education, particularly for children with vision impairments.  
9           However, current GenAI deployment assumes digitally literate, sighted educators in well-resourced settings. This paper examines  
10          teachers with vision impairments (TVIs) in Indian schools for the blind through interviews with 15 TVIs in Karnataka and a survey  
11          of 105 TVIs across 15 states. We reveal critical gaps between GenAI's potential and institutional readiness, documenting challenges  
12          including limited device access, inadequate training, institutional resistance, and STEM education barriers. Our findings demonstrate  
13          that realizing GenAI's inclusive promise requires moving beyond assistive technology retrofits toward co-designed, contextually  
14          grounded systems addressing TVIs' lived realities in the Global South.  
15

16           Additional Key Words and Phrases: Accessibility, Education, Vision Impairment, Generative AI, Global South, Teachers, Inclusive  
17          Design  
18

19           **ACM Reference Format:**

20           Manohar Swaminathan and Tarini Naik. 2026. Generative AI for Teachers with Vision Impairments in the Global South: A Bridge Too  
21          Far?. 1, 1 (January 2026), 9 pages. <https://doi.org/10.1145/nnnnnnn.nnnnnnn>  
22

23           **1 Introduction**  
24

25           Recent advances in generative artificial intelligence (GenAI), particularly in large language models (LLMs) and their  
26          multimodal capabilities, have led to a proliferation of tools with applications across diverse domains including education,  
27          accessibility, and communication. With the emergence of scalable systems supporting text, audio, image, and video  
28          inputs and outputs, GenAI now offers compelling affordances for reimaging how people learn, teach, and interact  
29          with information across languages, modalities, and contexts.  
30

31           In education, GenAI is rapidly gaining traction as developers and researchers explore its promise to provide adaptive,  
32          personalized, and scalable learning interventions at all levels—from early childhood to adult education and lifelong  
33          learning. While mainstream discourse includes legitimate concerns around misinformation, equity, and dependency,  
34          much of the narrative remains optimistic, highlighting tools that can act as intelligent tutors, assessment assistants,  
35          or creative collaborators. Yet, as these technologies continue to shape the future of education, critical questions arise  
36          about who is being served and who is being left behind.  
37

38           The inclusive potential of GenAI remains largely speculative for people with disabilities (PwDs), despite early  
39          promising applications. For instance, tools such as Be My AI [1], which uses image captioning powered by multimodal  
40          LLMs, have provided blind and low-vision users with an unprecedented degree of independence in everyday tasks.  
41

---

42           Authors' Contact Information: Manohar Swaminathan, Microsoft Research, Bangalore, Karnataka, India, manohar.swaminathan@microsoft.com; Tarini  
43          Naik, Microsoft Research, Bengaluru, Karnataka, India, tarininaik.design@gmail.com.

---

44           Permission to make digital or hard copies of all or part of this work for personal or classroom use is granted without fee provided that copies are not  
45          made or distributed for profit or commercial advantage and that copies bear this notice and the full citation on the first page. Copyrights for components  
46          of this work owned by others than the author(s) must be honored. Abstracting with credit is permitted. To copy otherwise, or republish, to post on  
47          servers or to redistribute to lists, requires prior specific permission and/or a fee. Request permissions from [permissions@acm.org](mailto:permissions@acm.org).

48           © 2026 Copyright held by the owner/author(s). Publication rights licensed to ACM.  
49           Manuscript submitted to ACM  
50

51           Manuscript submitted to ACM  
52

53 However, there remains a significant gap in exploring how GenAI might serve more complex, situated educational  
 54 needs, particularly for children with vision impairments (CVIs) and teachers with vision impairments (TVIs).  
 55

56 Our focus in this paper is on a critical yet under-examined stakeholder group in accessible education: TVIs working  
 57 in schools for the blind in India. This group plays a vital mediating role in shaping the educational opportunities of CVIs,  
 58 yet has received minimal attention in prior work on assistive technology, inclusive pedagogy, or HCI for accessibility.  
 59

60 India is home to the world's largest population of CVIs [2, 7]. These children often study in resource-constrained  
 61 residential schools for the blind, which differ significantly from inclusive or mainstream education environments.  
 62 Teachers, many of whom are themselves blind or low-vision, often manage multi-grade classrooms with minimal  
 63 support and limited access to infrastructure, teaching materials, or digital tools. The conditions of these schools have  
 64 been further exacerbated by historical patterns of technological exclusion, as seen during the COVID-19 pandemic,  
 65 when CVIs across the country experienced significant learning loss due to the inaccessibility of online education  
 66 systems.  
 67

68 Despite the central role of teachers in these settings, there is little empirical work examining their pedagogical  
 69 practices, technological aspirations, or lived experiences with computing. Existing literature on technology integration  
 70 in Indian classrooms rarely includes special schools, and even less so the experiences of TVIs. Research on disability  
 71 and assistive technology in the Global South similarly continues to be sparse, often failing to engage with the material,  
 72 infrastructural, and sociocultural realities that shape the design and deployment of technology for marginalized users.  
 73

74 In this work, we position TVIs in schools for the blind in India as critical agents in the broader effort to make GenAI  
 75 and computing technologies more inclusive and locally relevant. Our study investigates both the readiness and the  
 76 capacity of TVIs to adopt GenAI technologies, and the socio-technical constraints that shape this potential. We ground  
 77 our investigation in the following research questions:  
 78

- 81 • **RQ1: What is the readiness of TVIs, and their capacity to leverage computing technologies—including  
 82 GenAI—to enhance their effectiveness as teachers in schools for the blind?**
- 83 • **RQ2: What are the barriers and opportunities in the school environment and the broader socio-  
 84 technical context that influence their ability to integrate such technologies into their teaching  
 85 practice?**

88 By foregrounding the perspectives of TVIs in India, our work contributes to a growing body of HCI4D and accessible  
 89 computing scholarship that calls for inclusive, situated, and participatory approaches to technology design. We argue that  
 90 without proactive efforts to center the voices of educators with disabilities—particularly in the Global South—emerging  
 91 educational technologies risk reproducing longstanding patterns of exclusion, rather than dismantling them.  
 92

## 95 2 Related Work

### 96 2.1 AI in Education

98 GenAI's educational potential has attracted significant research attention, spanning intelligent tutoring, automated  
 99 assessment, and personalized feedback. Notable examples include Khan Academy's Khanmigo assistant [6] and Duolingo  
 100 Max [5]. Global South startups like Teachmint and Unacademy in India, and Squirrel AI in China, demonstrate expanding  
 101 innovation in AI-driven educational tools for resource-constrained environments.  
 102

## 105 **2.2 AI for People with Visual Impairments**

106 Emerging evidence suggests GenAI offers powerful capabilities for people with visual impairments (PVIs) when designed  
107 with accessibility as core. Be My AI enables conversational image descriptions, while tools like Seeing AI, Google  
108 Lookout, and Envision AI provide object recognition and text reading. However, most tools target everyday living  
109 rather than formal education and assume technological familiarity, device access, and digital literacy often absent in  
110 Global South contexts. UNICEF reports nearly half of individuals with disabilities worldwide live in poverty [8], with  
111 over two-thirds in low-income countries lacking reliable internet. The World Bank notes acute shortages of assistive  
112 technologies and inclusive training in low- and middle-income countries [9].  
113

## 116 **2.3 AI for Teachers with Visual Impairments**

117 TVIs remain largely invisible in current GenAI discourse. Most studies assume sighted teachers in well-resourced  
118 classrooms. In the Global North, CVIs receive support from sighted educators, leaving TVIs absent from scholarly  
119 and industry discussions. In contrast, India's educational landscape features residential schools for the blind—often  
120 underfunded and reliant on philanthropic support—where many teachers themselves have visual impairments. While  
121 prior assistive technology work focuses on personal or workplace use, limited exploration exists regarding how  
122 TVIs integrate these technologies into teaching practice. Our work addresses this gap by foregrounding TVIs' lived  
123 experiences and technological practices.  
124

## 125 **3 Methodology**

126 We employed mixed methods combining semi-structured interviews with TVIs in Karnataka and a nationwide survey  
127 across Indian states, with ethics approval from Microsoft Research's Institutional Review Board.  
128

### 129 **3.1 Study Procedure**

130 Research was conducted March 2024-January 2025. We recruited 15 TVIs from 10 Karnataka schools through Vision Empower  
131 Trust, conducting 45-120 minute interviews in-person or virtually. Participants received INR 1000 compensation.  
132 At interview conclusions, we demonstrated ChatGPT and Be My AI, conducting 20-minute follow-ups approximately  
133 20 days later. Fourteen participants responded to follow-ups.  
134

135 Based on qualitative themes, we developed a 46-question survey using Microsoft Forms with screen reader compatibility  
136 and seven regional language options. Distributed through Vision Empower's network of 150 schools across 17  
137 states reaching 407 TVIs, we received 105 valid responses (26% response rate) from 15 states, with Karnataka yielding  
138 the largest participation.  
139

### 140 **3.2 Participants**

141 Interview participants included 15 TVIs (10 women, 5 men): 9 totally blind, 6 with low vision. Nine handled six or more  
142 grade levels; ten taught three or more subjects including English (9), Mathematics (8), Kannada/Hindi (6), Social Science  
143 (7), and Science (5). Experience ranged from under 5 years (2) to over 15 years (6).  
144

145 Survey participants spanned 15 states, primarily Karnataka (n=35), Odisha (n=24), Tamil Nadu (n=15), and Telangana  
146 (n=11), demonstrating similar diversity in experience, gender, and responsibilities.  
147

### 157 **3.3 Data Analysis**

158 We employed exploratory sequential mixed-methods design [4]. Qualitative data underwent thematic analysis [3] with  
159 open coding and iterative refinement by two authors. Core themes included technology adaptation across teaching  
160 tasks, systemic constraints, institutional norms, and digital engagement barriers. Survey data utilized descriptive  
161 statistics, analyzed by state given distinct education boards and administrative frameworks. Analyses examined whether  
162 Karnataka themes appeared across states or if regional variations emerged.  
163

### 164 **3.4 Limitations**

165 Limitations include: (1) 15 Karnataka-only interview participants potentially limiting generalizability; (2) survey  
166 responses predominantly from four states; (3) coverage challenges due to schools' small size and geographic dispersion;  
167 (4) potential bias toward digitally engaged participants.  
168

## 169 **4 Findings**

170 We present findings across five dimensions: technology's teaching role, systemic challenges, institutional landscape,  
171 teacher attitudes, and GenAI awareness.  
172

### 173 **4.1 Technology's Role in Teaching**

174 Technology usage varies significantly across preparation, classroom interaction, and assessment stages.  
175

176 *4.1.1 Preparation Phase.* TVIs face substantial preparation challenges due to delayed Braille textbook delivery and  
177 predominantly manual processes. Books frequently arrive late, forcing reliance on personal knowledge or external  
178 resources. One teacher noted covering only 25% of Science curriculum due to late books (P6). Teachers increasingly use  
179 YouTube and Google for educational content, particularly visual explanations, though resources require adaptation for  
180 CVIs. As P14 explained, visual content must be made accessible through touch and tactile materials.  
181

182 Lesson planning remains manual, using Braille slates and styluses for multiple subjects and grades. Only one teacher  
183 accessed a Brailler, often unusable due to maintenance issues. High costs (approximately \$550) make Braillers largely  
184 inaccessible.  
185

186 *4.1.2 Classroom Interaction.* Institutional norms constrain classroom technology use. For subjects requiring visual  
187 explanations, TVIs depend on sighted colleagues, creating coordination challenges. Despite restrictions, some teachers  
188 creatively leverage YouTube videos and voice assistants like Alexa for interactive quizzes. However, institutional  
189 skepticism limits innovations, with mobile phone or YouTube use interpreted as lack of teaching effort. P11 stated: "If  
190 we play anything on YouTube...they think we are just following YouTube instead of teaching by ourselves. It is quite  
191 insulting."  
192

193 *4.1.3 Revision and Assessment.* Revision relies heavily on oral repetition and memorization due to limited structured  
194 resources. Teachers conduct frequent oral revisions since students rarely possess individual materials. P6 contrasted this  
195 with mainstream education where students take notes and highlight important content. Examination remains entirely  
196 analog, using Braille responses or scribe assistance, with students transitioning to scribes for public board exams.  
197

### 198 **4.2 Systemic Challenges**

199 TVIs face deeply embedded systemic barriers limiting meaningful technology integration.  
200

201 Manuscript submitted to ACM  
202

209    4.2.1 *Institutional Restrictions.* Strict mobile phone regulations make incorporating digital tools difficult, with technology use perceived as lack of effort rather than instructional aid.  
210  
211

212    4.2.2 *Multi-Grade Teaching Burden.* Unlike mainstream schools, TVIs frequently teach multiple subjects across multiple  
213    grades simultaneously. All 15 interviewed teachers taught multiple grades ( $M=6.5$ ,  $SD=2.9$ ), with 9 responsible for six or  
214    more levels. P6 described combined classrooms: "1st-3rd has one classroom, 4th-5th has one classroom, and 6th and 7th  
215    share one classroom." This arrangement complicates lesson planning and classroom management.  
216  
217

218    4.2.3 *Teaching Outside Expertise.* Teacher shortages require TVIs to teach subjects beyond formal training, significantly  
219    increasing preparation burden. Nine of 15 teachers taught three or more subjects despite expertise in only one or two  
220    areas. Teachers particularly struggle with STEM subjects requiring diagrams and experiments. P3 noted: "If a student  
221    asks me to explain a graph, I cannot show them because there is no tactile diagram available."  
222  
223

224    4.2.4 *Lack of Infrastructure.* Many schools lack necessary assistive technology infrastructure. Essential tools like  
225    braille readers, screen readers, and smartphones are either unavailable or poorly maintained.  
226  
227

### 228    4.3 Institutional and Social Landscape

229    Broader institutional policies and societal attitudes significantly shape technology integration.  
230  
231

232    4.3.1 *Right to Education and Automatic Promotion.* India's Right to Education Act mandates automatic promotion  
233    regardless of academic performance. While reducing dropouts, this often results in students progressing without  
234    adequate Braille literacy or foundational skills. TVIs also shoulder responsibility for awareness-raising and student  
235    recruitment, with P6 noting: "Every year, we do a survey...go door to door finding VI kids and try to enroll them."  
236  
237

238    4.3.2 *NGO Interventions.* Absent comprehensive governmental support, NGOs like Vision Empower Trust and  
239    Winvinaya Foundation provide critical interventions addressing systemic inequities. Teachers described these as  
240    transformative. P9 stated: "Since Vision Empower started their program...They have sent a lot of science and math  
241    teaching material." NGOs also facilitated first-time smartphone access for many teachers. However, programs remain  
242    limited in scope, constrained by funding and geography.  
243  
244

245    4.3.3 *Braille Literacy vs. Technology.* Significant debate exists around balancing Braille literacy with technology  
246    adoption. While appreciating digital tools, teachers remain committed to Braille as foundational. P3 stated: "Even if  
247    there is technology, we should not forget Braille...home food is Braille script, and hotel food is technology." Others  
248    fear voice-based tools encourage surface-level comprehension, advocating blended approaches where Braille remains  
249    central.  
250  
251

### 252    4.4 Teachers' Perspectives

253    Teacher perspectives are shaped by motivation, exposure, support systems, and confidence.  
254  
255

256    4.4.1 *Commitment and Curiosity.* Some teachers exhibit proactive attitudes. P3 shared: "I use Google and YouTube  
257    a lot. I also use reading mode." P8 emphasized: "In case there is a new app...I try to learn it myself" indicating digital  
258    self-efficacy. P13 experimented with ChatGPT: "I installed ChatGPT. I used it to clear my doubts."  
259  
260

Table 1. Teacher Workload and Planning Methods Across States (n=85)

Category	Karnataka	Odisha	Tamil Nadu	Telangana
<b>Workload Demands</b>				
Grade levels taught	Avg: 5	up to 13	4-6	Similar
Subjects taught	Up to 6	Up to 14	3-4	2-4
Combined classes	60%	29%	Lower	Lower
<b>Lesson Planning Methods</b>				
Brailler use	32.3% (11/35)	62.5% (15/24)	40% (6/15)	Lower
Handwritten	32.3% (11/35)	8.3% (2/24)	Similar	Lower
Digital documents	35.5% (12/35)	12.5% (3/24)	Lower	55.5% (6/11)

4.4.2 *Disinterest and Reluctance.* Conversely, some showed limited interest. P11 clearly stated: "I am not interested. I feel mobile is not required. I use phone only when needed." Even among curious teachers, usability frustrations led to abandonment. P7 noted: "I used it 2-3 times. I was finding it difficult and I uninstalled it."

#### 4.5 GenAI Awareness

We introduced ChatGPT and Be My Eyes at interview conclusions, assessing willingness to experiment.

4.5.1 *Engagement with ChatGPT.* Several teachers attempted using ChatGPT following interviews, but accessibility barriers during login often caused frustration. P1 reported: "I tried everything, I am not able to continue." However, P10 expressed enthusiasm: "I can learn English with this tool...There is no English teacher in our school," highlighting GenAI's dual role for teaching preparation and self-learning.

4.5.2 *Be My AI Awareness.* Most participants had never used or were vaguely aware of Be My Eyes. Some integrated it for reading labels and identifying objects, though P2 highlighted limitations: "There are very less female volunteers...Sometimes this is a very big problem." Notably, except one, no TVIs knew Be My AI prior to demonstration, suggesting well-publicized GenAI accessibility tools haven't reached this community.

4.5.3 *Language and Accessibility.* Preference for local language support emerged as recurring theme. Teachers expressed that Kannada integration would significantly improve usability. Accessibility barriers during onboarding significantly impacted adoption.

#### 4.6 Survey Analysis

Our pan-India survey examined whether Karnataka patterns appeared across states. Analysis confirms overwhelming workloads, infrastructure gaps, and technology adoption constraints appear consistently across surveyed states, though intensity varies.

Findings indicate that while teachers recognize technology benefits and demonstrate adoption where possible, infrastructure gaps and insufficient institutional support continue shaping practice. Even states with better infrastructure face gaps in accessible teaching aids and institutional backing, with no consistent relationship between salary, workload, and technology adoption.

Table 2. Technology Usage and Perceived Benefits Across States (n=85)

Category	Karnataka	Odisha	Tamil Nadu	Telangana
<b>Technology Usage</b>				
For preparation	77.1% (27/35)	45.8% (11/24)	86.7% (13/15)	81.8% (9/11)
For teaching	71.4% (25/35)	45.8% (11/24)	80.0% (12/15)	81.8% (9/11)
<b>Perceived Benefits</b>				
Knowledge access	76.2% (16/21)	66.7% (8/12)	86.7% (13/15)	81.8% (9/11)
Lesson planning	47.6% (10/21)	41.7% (5/12)	60.0% (9/15)	54.5% (6/11)
Classroom use	38.1% (8/21)	20.8% (3/12)	53.3% (8/15)	45.5% (5/11)

Table 3. Infrastructure Availability Across States (n=85)

Resource	Karnataka	Odisha	Tamil Nadu	Telangana
Internet access	26% (9/35)	17% (4/24)	40% (6/15)	55% (6/11)
Tactile aids	60% (21/35)	67% (16/24)	33.3% (5/15)	9.1% (1/11)
Hands-on kits	23% (8/35)	21% (5/24)	40% (6/15)	18.2% (2/11)
Lab facilities	3% (1/35)	Similar	Higher	Higher
Books	Not specified	Not specified	Available	63.6% (7/11)

## 5 Discussion

Our findings reveal a fundamental paradox: while TVIs express enthusiasm and commitment toward technology, systemic barriers significantly limit adoption. Across all teaching stages, teachers independently turn to YouTube, Google, and voice assistants, yet efforts remain fragmented due to school norms, limited training, and infrastructure gaps. This disconnect underscores the need to look beyond individual readiness toward structural change.

### 5.1 Schools as Gatekeepers

One significant barrier lies not in teacher readiness but in school culture. Teachers reported that using YouTube or mobile phones is viewed as lack of effort, forcing them to seek permission for minor interventions. This institutional skepticism creates cycles where teachers—despite initiative—are discouraged from experimentation. This repositions "readiness" from individual capacity to systemic design. Without institutional buy-in and policy support, even motivated teachers struggle with sustainable integration.

### 5.2 GenAI's Promise

Within constrained environments, GenAI holds immense potential as mediator—between teachers and inaccessible content, between complex subjects and tactile/audio-first delivery, and between rigid schooling structures and dynamic CVI needs. GenAI could convert video content into tactile descriptions, generate differentiated materials for multi-grade classrooms, create accessible STEM representations, and serve as personal learning assistants for teachers instructing outside expertise areas.

### **365      5.3 Designing for Context**

**366** Yet implementation must be deeply contextualized. ChatGPT and Be My Eyes saw only partial uptake due to poor  
**367** login accessibility, unfamiliar interfaces, limited regional language options, and gendered concerns around volunteer  
**368** interaction. Design implications include: (1) multilingual support for regional languages; (2) accessible onboarding  
**369** fully compatible with screen readers; (3) context-aware content generation understanding schools for the blind; (4)  
**370** gender and privacy considerations for human-assisted tools; (5) offline and low-bandwidth modes given inconsistent  
**371** connectivity.  
**372**

### **373      5.4 Global Disparities**

**374** In the Global North, TVIs experiment with ChatGPT for lesson planning and content structuring, though formal research  
**375** remains limited. This may reflect that Global North CVIs typically receive support from sighted educators in inclusive  
**376** classrooms. In contrast, Global South TVIs—often blind themselves in segregated schools—encounter multiple friction  
**377** points including inaccessible interfaces, unreliable connectivity, and limited linguistic relevance. These disparities reflect  
**378** structural differences, with Global North efforts benefiting from systemic support while Global South adoption remains  
**379** fragmented and reliant on individual initiative or NGO interventions. GenAI development assumes user contexts (stable  
**380** internet, English proficiency, device ownership) that don't hold in Global South settings, risking widened inequities.  
**381**

### **382      5.5 From Individual Effort to Systemic Support**

**383** Future AI interventions must move beyond narratives of teachers as isolated innovators toward system-supported  
**384** infrastructure. TVIs should not shoulder discovery, adaptation, and advocacy burdens alone. Successful GenAI integration  
**385** requires multi-level intervention:

**386      Policy:** Education departments must update policies recognizing appropriate technology use, countering perceptions  
**387** that technology indicates laziness.

**388      Institutional:** Schools need dedicated technology coordinators helping TVIs troubleshoot and integrate tools, with  
**389** mandatory compensated professional development.

**390      Infrastructure:** Reliable connectivity, functional devices, and maintained assistive technologies must be standard  
**391** provisions, not occasional luxuries.

**392      Design:** Technology companies must engage TVIs during design, not just deployment, using co-design approaches  
**393** centering disabled educators' lived experiences.

**394      Community:** Peer support networks among TVIs can share best practices, troubleshoot challenges, and collectively  
**395** advocate for resources.

**396** Current reliance on individual initiative and NGO interventions, while admirable, is neither sustainable nor scalable.  
**397** Without systemic change, GenAI's promise for inclusive education will remain unrealized for most TVIs and CVIs in  
**398** the Global South.

## **409      6 Conclusion**

**410** Our study foregrounds TVIs' lived experiences in India—an essential yet overlooked group in inclusive education and  
**411** emerging technology conversations. While multimodal GenAI holds significant promise for enhancing CVIs' educational  
**412** experience, findings reveal stark contrasts between this promise and material, infrastructural, and institutional realities  
**413** in which teachers operate.

417 TVIs demonstrate remarkable resilience, creativity, and commitment leveraging technology despite institutional  
418 barriers and resource constraints. However, systemic challenges—restrictive policies, overwhelming multi-grade burdens,  
419 inadequate infrastructure, insufficient training—severely limit meaningful digital tool integration. The disconnect  
420 between GenAI's potential and ecosystem readiness represents a critical gap requiring attention.  
421

422 Our work contributes to emerging HCI and AI for education agendas insisting on equity as foundational design  
423 principle. By positioning TVIs as co-designers of educational futures, we call for paradigm shifts in how AI tools are  
424 imagined and deployed, moving beyond universal design assuming sighted, resourced users toward context-specific,  
425 participatory processes centering disabled educators' needs and expertise in the Global South.  
426

427 Future work should explore: (1) co-design processes actively involving TVIs in developing GenAI educational tools; (2)  
428 longitudinal studies examining sustained GenAI integration impact with proper support infrastructure; (3) comparative  
429 analyses across Global South contexts understanding regional variations; (4) policy research investigating educational  
430 system restructuring supporting technology-enabled inclusive pedagogy.  
431

432 Without such paradigm shifts addressing entire support ecosystems, GenAI's promise might remain just that.  
433 Realizing GenAI's inclusive potential requires systemic transformation recognizing TVIs as essential change agents in  
434 creating truly accessible educational futures.  
435

#### 436 Acknowledgments

437 We thank the teachers who generously shared their time and insights. We thank Rajesh S. Paali, Venkatesh Deshpande,  
438 Rajeswari Pandurangan, Devidatta Ghosh, and Rishi Vadhana from Vision Empower Trust for invaluable support  
439 with recruitment, coordination, and translation. We also thank Roshni Poddar, Nischith Shadagopan, Anush Kini, and  
440 Adharsh Kamath for interview phase assistance.  
441

#### 442 References

- 443 [1] Be My Eyes. 2025. Be My Eyes: See the World Together. <https://www.bemyeyes.com/>  
444 [2] Business Standard. 2022. India loses 118 billion dollars annually in GNI due to childhood blindness: Report. [https://www.business-standard.com/article/current-affairs/india-loses-118-bn-annually-in-gni-due-to-childhood-blindness-report-122090901204\\_1.html](https://www.business-standard.com/article/current-affairs/india-loses-118-bn-annually-in-gni-due-to-childhood-blindness-report-122090901204_1.html)  
445 [3] Victoria Clarke and Virginia Braun. 2017. Thematic analysis. *The Journal of Positive Psychology* 12, 3 (2017), 297–298.  
446 [4] John W. Creswell and J. David Creswell. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches*. SAGE Publications.  
447 [5] Duolingo Team. 2023. Introducing Duolingo Max, a Learning Experience Powered by GPT-4. <https://blog.duolingo.com/duolingo-max/>  
448 [6] Khan Academy. 2023. Khanmigo AI Tutor. <https://www.khanmigo.ai/>  
449 [7] Simi Mehta, Anshula Mehta, and Arjun Kumar. 2022. Need to prioritize eye health in India. <https://www.counterview.in/2022/10/need-to-prioritize-eye-health-in-india.html>  
450 [8] UNICEF and ITU. 2020. How many children and young people have internet access at home? <https://data.unicef.org/resources/children-and-young-people-internet-access-at-home-during-covid19/>  
451 [9] World Bank Group. 2022. Every Learner Matters: Unpacking the Learning Crisis for Children with Disabilities. <https://blogs.worldbank.org/en/sustainablecities/every-learner-matters-unpacking-learning-crisis-children-disabilities>  
452