

# Education for all is a right and not a privilege

PCQuest Bureau

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Discover how innovative minds are revolutionizing inclusive education for differently abled individuals.

From immersive learning experiences to bridging communication gaps and empowering special educators, these trailblazers leverage cutting-edge technologies like AI and ML to break down barriers and envision a future where education is a right, not a privilege. Join the conversation on the transformative power of technology in shaping a truly inclusive educational landscape

In recent years, technological innovations have significantly impacted the educational landscape, particularly for individuals with disabilities. In this discussion, we explore the pioneering work of four innovators— Narayanan “Nadu” Ramakrishnan, Founder & CEO of Avaz Inc., Adhrash, Founder & CEO of Viftr Tech, Ramu Muthangi, Founder & CEO of SHG Technologies, and Janhavi Joshi, Founder & CEO of BleeTech Innovations. They are leveraging cutting-edge technologies to empower differently abled individuals in their pursuit of education and independence.

The journey begins with an acknowledgment of the distinct challenges faced by differently abled individuals in education. These innovators address the unique needs of children with neurological conditions by employing assistive technologies, coupled with AI, ML, and Machine Vision, to create an immersive learning experience.

#### ▼ Halara’s Immersive Learning Experience

Halara is committed to creating a conducive learning environment for children with neurological conditions. Utilizing AR, Halara enables these children to engage with their surroundings in a way that aligns with their unique learning styles. This immersive experience goes beyond traditional approaches, fostering a more inclusive and participative environment.

#### ▼ Avaz App: Bridging Communication Gaps

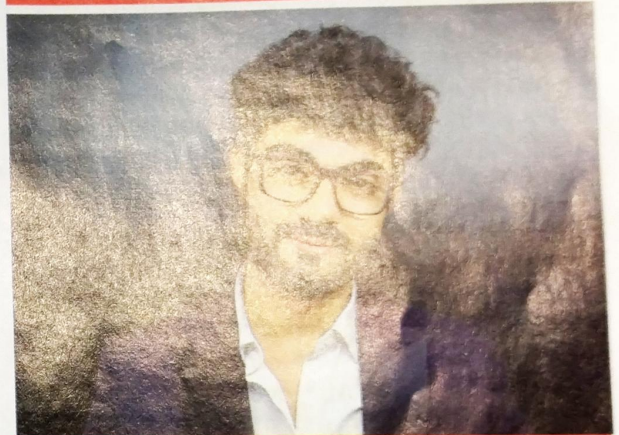
Avaz creates cost-effective assistive technology, including the Avaz AAC app—a picture and text-based communication system for non-verbal individuals with conditions like autism, cerebral palsy, ALS, Aphasia, Down’s Syndrome, and other neurological conditions. This app, compatible with various devices, empowers users to communicate and lead independent lives.

#### ▼ Vision for the Visually Impaired

Ramu Muthangi’s venture aims to empower the visually impaired through cutting-edge technology. His organization provides specialized smart Vision Glass incorporating bone conduction technology, cameras, processors, and sensors. These AI-driven



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glasses offer real-time information about the user’s surroundings, overcoming the limitations imposed by visual impairment.

### ▼ For Students with Learning Disabilities

BleeTech Innovations specializes in design and technology solutions for the deaf community, notably with their flagship product, the BleeTV Library. This digital platform offers deaf children access to information and knowledge in Indian Sign Language, providing specially curated content. The platform also supports schools in implementing the program and monitors students' activities.

### ▼ Overcoming Challenges

Despite the transformative potential of these innovations, the panelists acknowledge real-world implementation challenges. Affordability remains a significant hurdle, and they emphasize the importance of making their technologies economically accessible. They advocate for shared financial responsibility, encouraging schools and institutions to invest in the technologies they adopt.

### ▼ Government Support and Legislative Challenges

The conversation also touches upon the role of government support in fostering inclusive education. While positive experiences with state-level initiatives, like the Tamil Nadu government's collaboration with Narayanan "Nadu" Ramakrishnan, are highlighted, there is a consensus that more comprehensive legislation is needed to support differentlyabled individuals across India.

### ▼ Advances in AI and ML

As AI and ML technologies advance, opportunities for creating more sophisticated and intelligent solutions for the differently



**JANHAVI JOSHI**, Founder & CEO,  
BleeTech Innovations

abled become apparent. The panelists foresee advancements in AI, ML, and NLP significantly improving communication aids, educational tools, and overall accessibility.

### ▼ Empowering Special Educators

The discussion extends to the potential of AI in empowering special educators. Narayanan "Nadu" Ramakrishnan highlights the significance of leveraging AI to support and enhance the capabilities of special educators, enabling them to cater to a larger number of students efficiently.

### ▼ Future Perspectives

The panelists express optimism about the future, believing that education for differentlyabled individuals should be a right rather than a privilege. They discuss the potential role of AI and ML in furthering their initiatives, envisioning even more advanced and personalized solutions.

The transformative technologies presented by Narayanan "Nadu" Ramakrishnan, Adhrash, Ramu Muthangi, and Janhavi Joshi are shaping a future where education is truly inclusive. These innovations not only break down barriers but also offer a glimpse into the potential of technology to empower and uplift marginalized communities. ■



**avaz**  
for autism