



Smart Affordable Assistive Glasses to empower the visually impaired

Highlights from Our experience

We immersed ourselves in technology while building our product whether it be soldering wires of the countless iterations of the Smart Glasses, or writing more than 10,000 lines of code, or utilising industry leading computer vision technology to do better text and surroundings understanding than big assistive technology co-corporations.

We understood and improved our leadership skills by managing volunteers, setting and cracking goals for SightSense, and how to not only convince other people and organisations and make them believe in our ideas and actions but also continue believing in ourselves and having the perseverance to keep working hard to make the impact, which we learned by fund raising more than \$1600 from various innovation and social impact competitions, along with getting the order from CSR Funds.

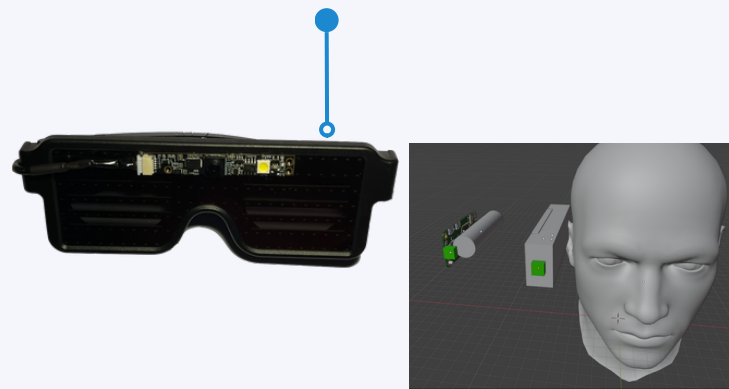
Over the 6 months of development from an idea to prototype to product. We learned more about our community, and while talking with the visually impaired students, we were surprised by how tech savvy the students were and how enthusiastic they were to tell about what features they want in the glasses. They would even want to code some of the features themselves but they were lacking a platform to do it.

But most importantly, our key highlight of the experience in building SightSense was to see the glimmer of hope and excitement of the blind children and learning about how they were going to use SightSense's glasses, something that we created to significantly change their lives, whether it be Tarun using it avoid the hassle of converting everything to braille, and to use it for higher education in university, or Gaurav who will use to find his shot put balls when practising alone for the internationals as a national athlete.



December 2023

Discussing and understanding the problems for blind students



February 2024

First Prototype and Simulations



April 2024

Sightsense's Smart Glasses

\$1600+
RAISED THROUGH
COMPETITIONS

\$13,000+
IN ORDERS OF SIGHTSENSE'S
GLASSES

Our Aim

Our aim is to combat the unfairness being faced by the underprivileged people, the high unaffordable prices of currently available assistive technology.

By providing affordable and efficient assistive technology, We want to not only ensure that visually impaired students can access education without barriers, but also help the blind community thrive, by being able to attain a higher sense of understanding of their surroundings and being able to collaborate better with each other, and be self-independent and to empower them so profoundly that their vision doesn't between a barrier, but a gateway to living a life without limitations.

We have long term vision for the initiative and We plan to make the assistive tech so cost effective such that visually impaired engineers and developers are encouraged to develop apps and additional functionalities for the glasses or other assistive tech on their. We envision empowering the blind community to directly enhance their own lives by creating tailored solutions for their specific needs.

Our Learnings

Our journey with SightSense has been transformative, equipping us with a diverse array of skills and insights that have profoundly shaped our understanding of societal challenges and our role in addressing them. Through this experience, we honed essential skills such as teamwork, communication, problem-solving, and time management. Coordinating the procurement and delivery of materials and working with a multidisciplinary team deepened our communication and negotiation skills while fostering effective teamwork.

Despite facing numerous challenges, from delays in material delivery to unexpected weather conditions, we learned the importance of resilience and adaptability in navigating obstacles. Our ability to find alternative solutions through brainstorming and communication was instrumental in overcoming these hurdles and achieving our goals.

Sustainable Development Goals



**TIE YOUNG ENTREPRENEUR,
RAJASTHAN WINNER OUT OF
150+ PARTICIPANTS.**

**DIAMOND CHALLENGE SEMI-
FINALIST IN SOCIAL
INNOVATION**

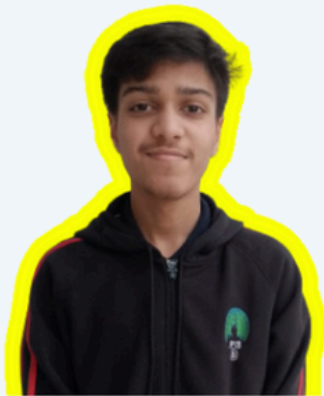
**WINNER OF SMART INDIA
HACKATHON BY MINISTRY OF
EDUCATION, OUT 6000+
PARTICIPANTS.**

Beyond practical skills, our journey broadened our awareness of societal issues, particularly the plight of visually impaired individuals. Engaging with blind schools and communities highlighted the urgent need for accessible and affordable assistive technology. This realization underscored our commitment to creating innovative solutions that empower marginalized communities and promote inclusivity. Overall, our experience with SightSense reaffirmed the transformative power of collective action and community engagement. By leveraging our skills and passion, we aspire to continue making a positive impact and empowering those in need.

Our Impact

Our impact has been profound and far-reaching. By distributing smart assistive glasses to visually impaired individuals, we've opened doors to education, employment, and social engagement that were previously closed. This initiative has not only reduced barriers to education and employment but has also fostered economic independence and social inclusion within the visually impaired community. Our innovation and social impact have garnered recognition, inspiring others to harness technology for positive change. Moreover, we've established a sustainable business model that not only achieves social impact but also maintains financial viability, ensuring the long-term sustainability and scalability of our initiative. With our smart assistive glasses being 16 times less expensive than previous options and offering reading speeds six times faster than braille, we've democratized access to assistive technology while significantly enhancing efficiency and accessibility. Securing a substantial 100-unit order underscores the demand for our solution, while our successful aid to blind students in their daily activities has notably improved their quality of life and independence. Through SightSense, we've not only transformed individual lives but have also contributed to the creation of a more inclusive and equitable society for all.

Team SightSense



**CEO
& Head of Engineering and
Technology
Akshat Singhania**



**Head of 3D Design
and Logistics
Unnati Singhania**