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Sign-to-Speech Technology

Team:-Futureforge

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A picture of your team!

Anubhav Gupta	Abhinash Ray	Ayush Agarwal	Team Member Name

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Problem Statement

Interaction
This technology enables seamless real-time communication between sign language users and speakers.

Inclusivity and Empowerment
Sign-to-Speech empowers hearing or speech-impaired individuals to engage fully in social and professional settings.

Technical Process
The system captures gestures via cameras, processes them with machine learning, and generates spoken output.

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Solution

Gesture Recognition
Cameras and wearable sensors capture hand movements, facial expressions, and body posture for sign detection.

Machine Learning Interpretation
Machine learning models map recognized gestures to words or phrases in spoken language.

Natural Language Processing
Ensures grammatical accuracy and contextual relevance in the translated text output.

Speech Synthesis
Converts interpreted text into audible speech, completing the communication loop in real-time.

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Screenshot 1

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Screenshot 2

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Screenshot 3

Business Model

Revenue Streams

a) Subscription Model

₹199–₹499/month for individual users

Premium voice packs, unlimited translations, offline mode

b) Institutional Licenses

Schools / hospitals / companies: **₹20,000–₹1,50,000 per year** depending on size

Training + admin dashboard included

c) API / SaaS Integration

API billed **per 1,000 translations**

Integration for EdTech apps, telemedicine, help centers

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Anything else?

Immersive AR and VR Integration
Integrating Sign-to-Speech with AR and VR creates immersive, seamless communication in virtual environments.

Multilingual Sign Translation
Future systems will translate sign language into multiple spoken languages for broader global use.

Wearable Technology Advances
Smart gloves and AR glasses will enhance portability and affordability of Sign-to-Speech devices.

AI Accuracy and Adaptability
Improved AI algorithms will boost accuracy and adaptability in diverse and challenging environments.

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Thank you

One line about your favorite part of MumbaiHacks 2025!