ElevenLabs AI Audio Challenge

Lablab.ai UAE

Team:

AudioHacks, UAE

ML in PL conference

LinguaPolis:

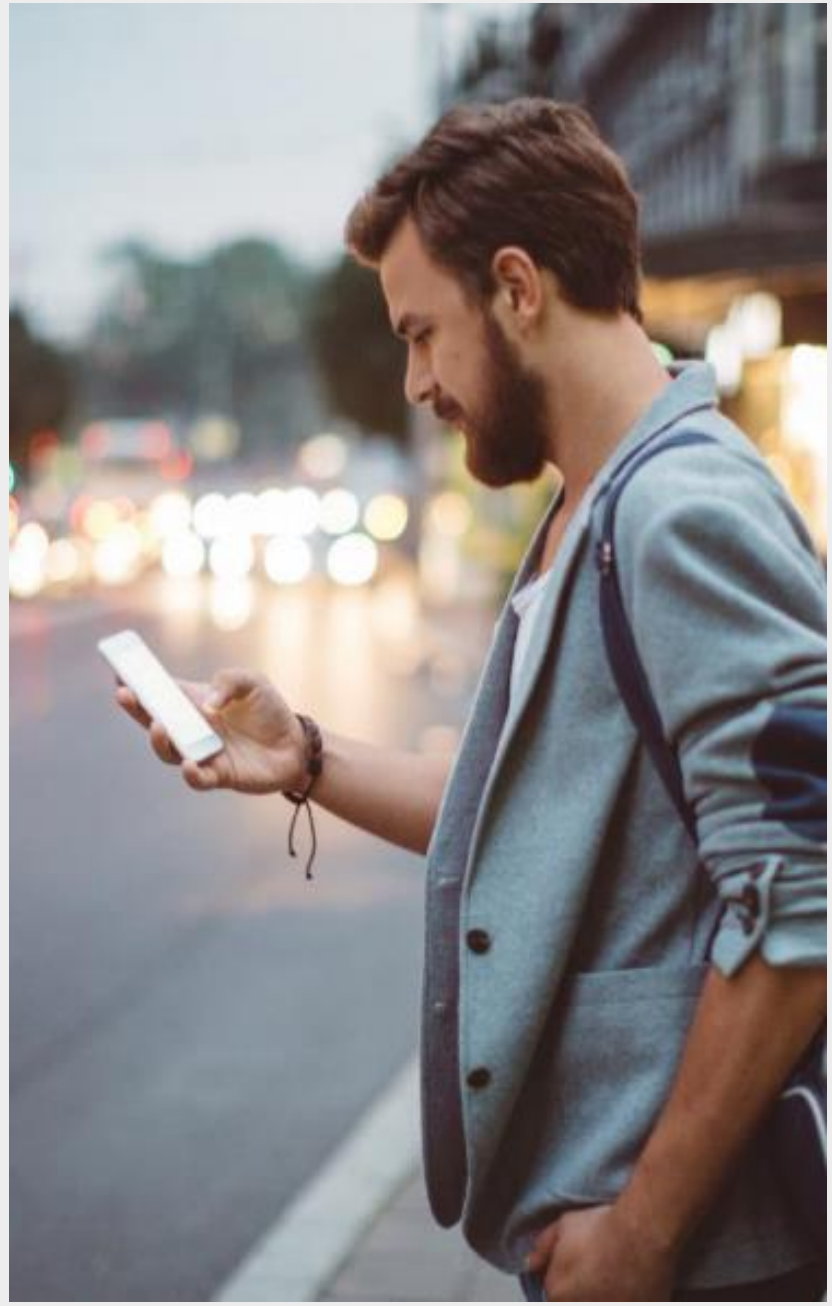
Bridging Languages, Uniting Teams Globally

- Multilingual Conference Call Simulation

Near Real-Time Language Dubbing, Transcription, and Meeting Summaries

The Challenge of Global Online Meetings

- Global teams span multiple countries, cultures, and languages.
- Communication barriers in online meetings due to language differences.
- Misunderstandings and follow-up emails slow productivity.
- Need for a solution that allows participants to speak in their native language while being understood by all.



Current Limitations of Online Meetings

- Not everyone is fluent or comfortable speaking in a shared language like English.
- Difficulty understanding different accents, dialects, and pronunciations.
- Important points are missed, requiring follow-up emails for clarification.
- Lost productivity and inefficient decision-making.

Our Solution

- Participants speak in their native language.
- Real-time dubbing into local languages for others in original speaker's natural tone.
- Instant transcription of spoken words into each participant's native language.
- Automatic meeting minutes summarized and delivered in native languages at the end.

An AI-Powered Multilingual Meeting Platform

Existing Solutions vs. Our Platform

Feature	Zoom/Teams/Google Meet	Our Platform
Real-time text translation	Yes (limited)	Yes (full)
Real-time dubbing into multiple languages	No	Yes
Transcription into multiple languages	No	Yes
Automatic multilingual meeting summaries	No	Yes

Technology Stack

Cutting-Edge Technologies Powering Our Solution

- ElevenLabs API: Real-time video dubbing with natural-sounding voices.
- Whisper Large Turbo: Accurate speech transcription across multiple languages.
- Facebook’s m2m100_1.2B: Real-time multilingual translation for over 100 languages.
- AI71 API with Falcon-180B-chat: AI-based summarization of meeting minutes.

Business Potential

Why This Platform Has Business Potential?

- Addresses the growing need for cross-language communication without compromising on original tonality.

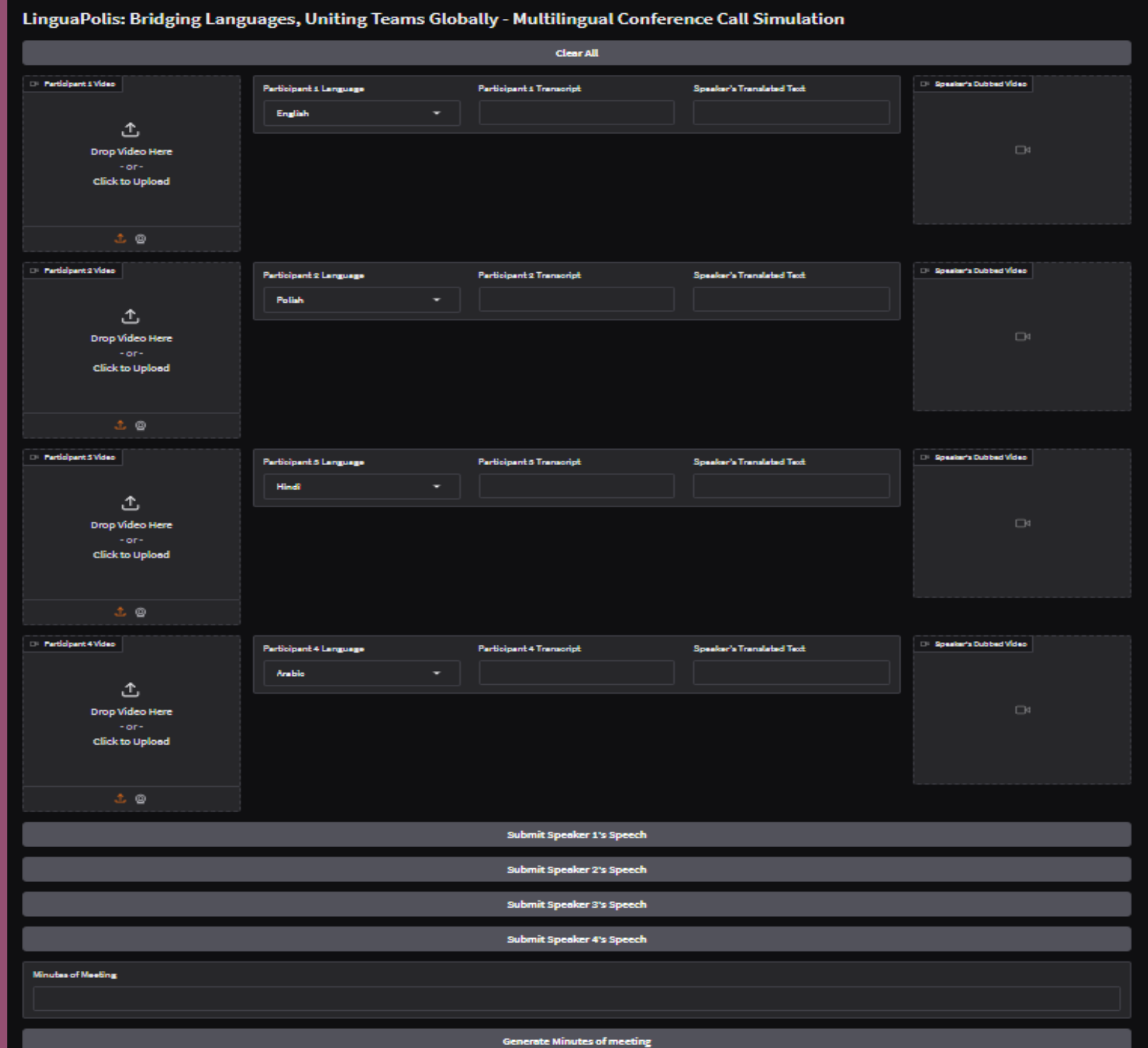
- Saves time by reducing misunderstandings and follow-up communication.
- Enhances productivity by ensuring everyone can fully participate in meetings.

- Boosts inclusivity and collaboration in diverse global teams.

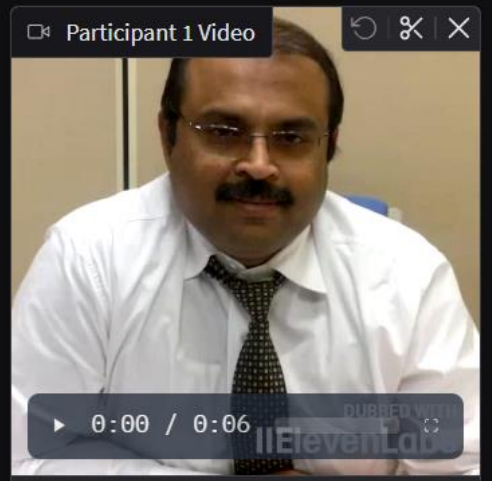
- Scalable across industries: multinational corporations, NGOs, governments, education.

Demonstration

- Each participant speaks in their own language.
- Speech is dubbed in real-time into other participants' languages in speaker's tone.
- Real-time text transcripts are displayed in each participant's language.
- AI summarizes the meeting into actionable minutes in multiple languages.



Participant 1 Video



Participant 1 Language

English

Participant 1 Transcript

Hello, my name is Yasri Nifas.

Speaker's Translated Text

Speaker's Dubbed Video

Participant 2 Video

Drop Video Here

- or -

Click to Upload

Participant 2 Language

Polish

Participant 2 Transcript

Speaker's Translated Text

Witam, nazywam się Yasri Nifas.

Speaker's Dubbed Video

Participant 2 Video

Participant 2 Language

Polish

Participant 2 Transcript

Jestem Lena. To ciekawy pomysł. Zbadamy to dalej.

Speaker's Translated Text

Witam, nazywam się Yasri Nifas.

Speaker's Dubbed Video

Participant 3 Video

Drop Video Here

- or -

Click to Upload

Participant 3 Language

Hindi

Participant 3 Transcript

Speaker's Translated Text

मैं लेना हूं. यह एक दिलचस्प विचार है. हम इसे आगे देखेंगे।

Speaker's Dubbed Video

Participant 3 Video

Participant 3 Language

Hindi

Participant 3 Transcript

नमस्ते, मैं राजेश हूँ। एप्लिकेशन को अधिक सुविधाओं के साथ बहतर बनाया जा सकता है।

Speaker's Translated Text

मैं लेना हूं. यह एक दिलचस्प विचार है. हम इसे आगे देखेंगे।

Speaker's Dubbed Video

Participant 4 Video

Drop Video Here

- or -

Click to Upload

Participant 4 Language

Arabic

Participant 4 Transcript

Speaker's Translated Text

مرحبا، أنا ريتش. قد يتم إنشاؤ التطبيق مع المزيد من الميزات.

Speaker's Dubbed Video

Participant 3 Video

Participant 3 Language

Hindi

Participant 3 Transcript

नमस्ते, मैं राजेश हूँ। एप्लिकेशन को अधिक सुविधाओं के साथ बहतर बनाया जा सकता है।

Speaker's Translated Text

मैं डीना सब कुछ शानदार लग रहा है, चलो इसे अगले स्तर पर ले जाएं

Speaker's Dubbed Video

Participant 4 Video

Participant 4 Language

Arabic

Participant 4 Transcript

أنا دينا كل شيء يبدو رائعا دعونا نأخذه إلى المستوى التالي

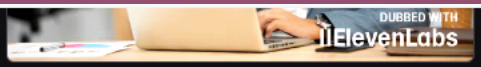
Speaker's Translated Text

مرحبا، أنا ريتش. قد يتم إنشاؤ التطبيق مع المزيد من الميزات.

Speaker's Dubbed Video

Submit Speaker 1's Speech

Submit Speaker 2's Speech



Submit Speaker 1's Speech

Submit Speaker 2's Speech

Submit Speaker 3's Speech

Submit Speaker 4's Speech

Minutes of Meeting

Minutes of Meeting held on 2024-10-11 15:49:05

The meeting was attended by four speakers, namely Rash, Yasri Nifas, Lena, and Speaker_4. The discussion revolved around the development of an app with additional features. Rash suggested that the app can be built with more features, while Yasri Nifas introduced himself. Lena expressed her interest in the idea and stated that they will explore it further. Rash reiterated his suggestion, and Speaker_4 concluded the meeting by stating that everything looks great and that they should take it to the next level.

Generate Minutes of meeting

Benefits of Our Platform

- Time Savings: Eliminates post-meeting clarifications and emails.
- Enhanced Communication: Accurate, natural, real-time, intuitive understanding across languages.
- Increased Inclusivity: Supports participants speaking in their native languages.
- Global Scalability: Applicable across industries and sectors.

Future-Ready Technology

- Leveraging advanced AI and NLP models for real-time, multilingual communication.
- Technologies like Whisper-large-v3-turbo, ElevenLabs, and m2m100_1.2B already proven in speech-to-speech translation.
- Falcon-180B-chat enhances meeting efficiency through accurate summaries.

Conclusion

Revolutionizing Global Communication

- This platform transforms how international teams collaborate.
- Real-time (Currently push-button in demo) multilingual dubbing and transcription eliminate communication barriers.
- AI-generated meeting minutes ensure clarity and productivity.
- The platform fosters efficiency, inclusivity, and global scalability.
- A game-changer for any organization with a diverse, global workforce.

END

THANK YOU !!

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