



Bhartiya Gramin Punarrachna Sanstha's

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HI-TECH INSTITUTE OF TECHNOLOGY, AURANGABAD

A Pioneer to Shape Global Technocrats

Third Year mini Project PPT

On

“REAL TIME VOICE TRANSLATOR”

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AIM OF PROJECT

The aim of a voice language translator is to convert text or speech from one language into another, facilitating communication and understanding between people who speak different languages. It aims to preserve the original meaning, context, and cultural nuances to ensure accurate and effective communication.

INTRODUCTION

- Language translator applications are digital tools designed to translate text, speech, or even visual information from one language to another in real-time.
- Their main goal is to facilitate seamless communication across language barriers. Translation is necessary for the spreading new information, knowledge, and ideas across the world.
- It is absolutely necessary to achieve effective communication between different cultures. In the process of spreading new information, translation is something that can change history.

ABSTRACT

- Translation is a medium to transfer the knowledge or information. It can be a bridge which connects the people from the different languages and cultures. By using translation, people can learn and understand each other's languages and cultures.
- Translation is not merely at changing words, but also transferring of cultural equivalence with the culture of the original language and the recipient of that language as well as possible.
- The better translation must be accepted by all people in logic and based on fact; thus, the message which contained in the source language (SL) can satisfy the target language (TL) reader with the information within.

How to build real time voice translator

Core Python Skills

Library Installation

Algorithm Development

DEMO OF REAL TIME VOICE TRANSLATION

- **Voice input** : user speaks into the microphone.
- **Algorithm processing** : the python algorithm processing and the translates the input.
- **Translated Output** : the translated text is displayed or voiced back to users.

ADVANTAGES AND SCOPE

➤ ADVANTAGES

- Fast and reliable
- Auto language detection
- Bulk translation can be done
- Less expensive.

➤ SCOPE

- Translation is necessary for the spreading of new information, knowledge, and ideas across the world.
- It is absolutely necessary to achieve effective communication between different cultures. It is the only medium by which certain people can know different works that will expand their knowledge of the world.
- Not everyone speak English ,so Language Translator is helpful for us to translate our native language.

APPLICATION

Language translators have a wide range of applications across various fields, enhancing communication and making information more accessible across language barriers. Here are some of the key applications:

1. **Global Business:** Facilitates communication between companies and clients who speak different languages, enabling international trade and collaboration.
2. **Travel and Tourism:** Helps travelers communicate with locals, read signs and menus, and understand cultural norms, making travel experiences smoother and more enjoyable.
3. **Education:** Enables access to educational materials in multiple languages, supporting learning for non-native speakers and promoting multilingual education.
4. **Social Media and Communication:** Breaks down language barriers on social platforms, enabling users from different linguistic backgrounds to interact, share ideas, and build communities.

5. Website Localization: Allows businesses and organizations to offer their websites in multiple languages, making their products and services accessible to a global audience.¹⁰ 6.

6. Artificial Intelligence and Machine Learning: Contributes to the development of more sophisticated AI models that can understand and generate human-like text across languages, advancing technology in natural language processing and machine learning fields.

Conclusion

- **Impact of real time translation** : real time voice translation has the potential to break language barriers.
- **Continued progress**: the evaluation of translation system revolutionize multicultural interactions in the digital age.

THANK YOU...