END TO END *SPEECH TRANSLATION* MODEL.....

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Problem Statement

The aim is to translate speech from one language directly to another language using generative models without any text transcription in the latent space. This problem is based upon only on speech to speech conversion.
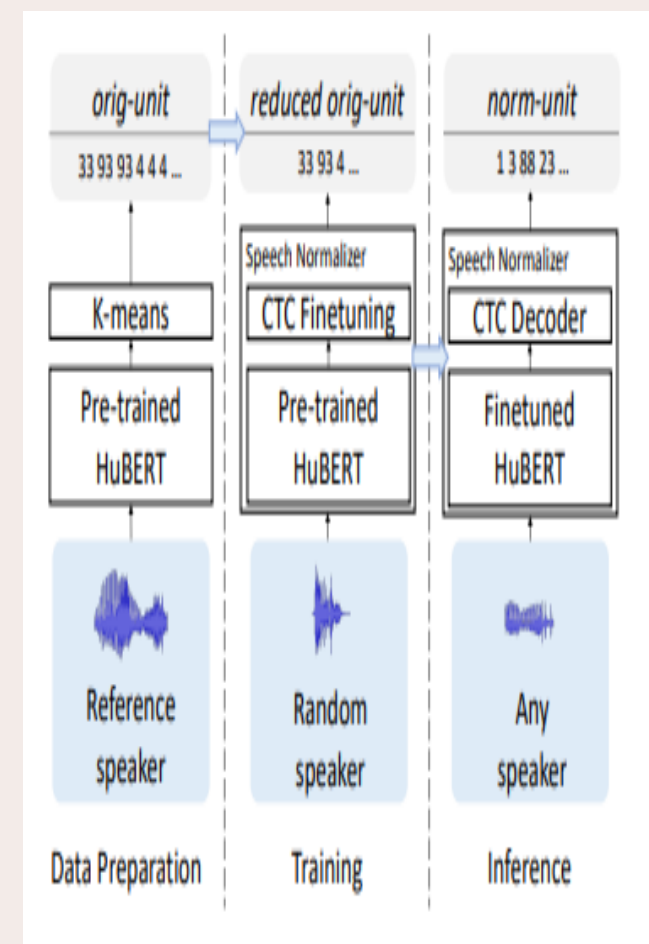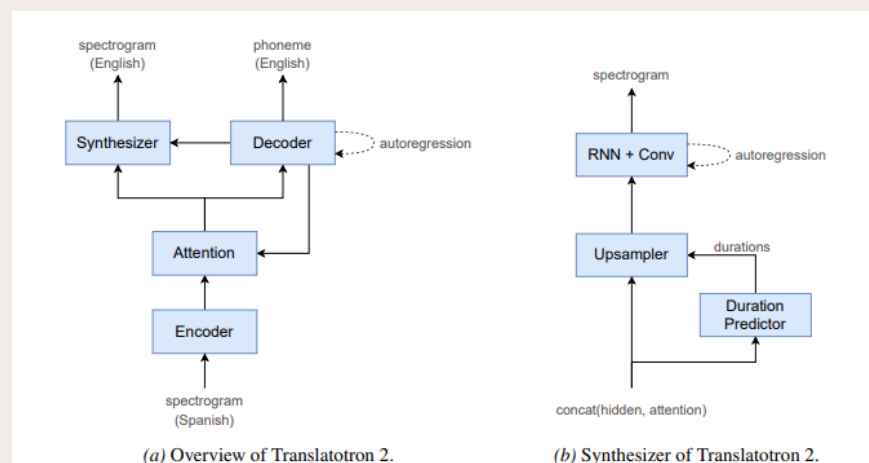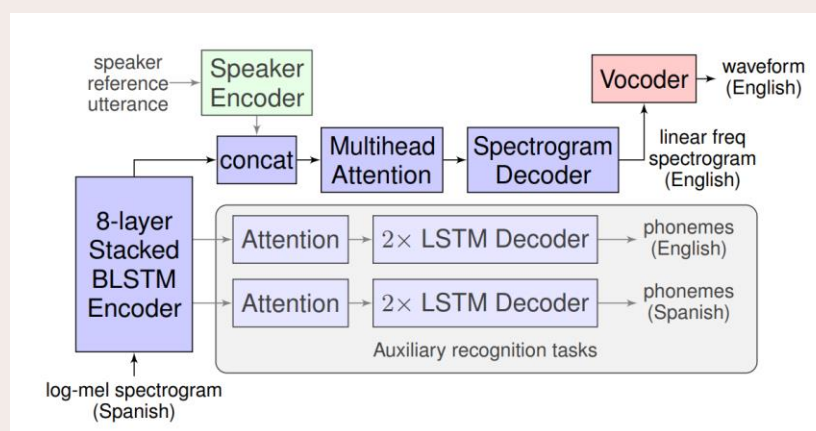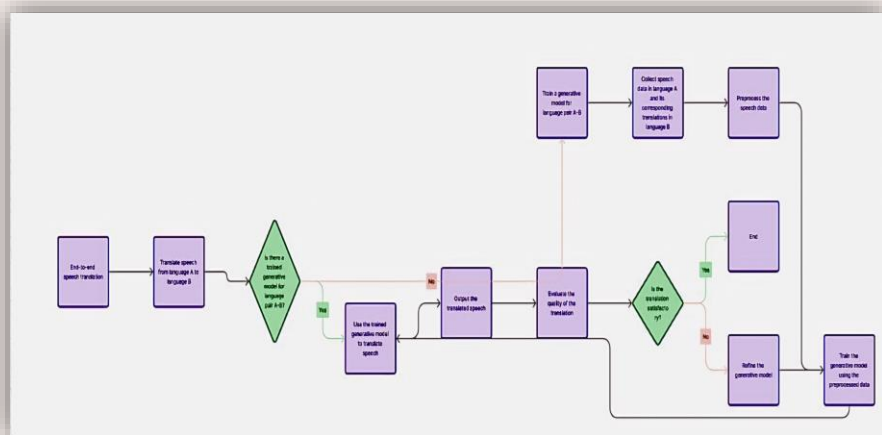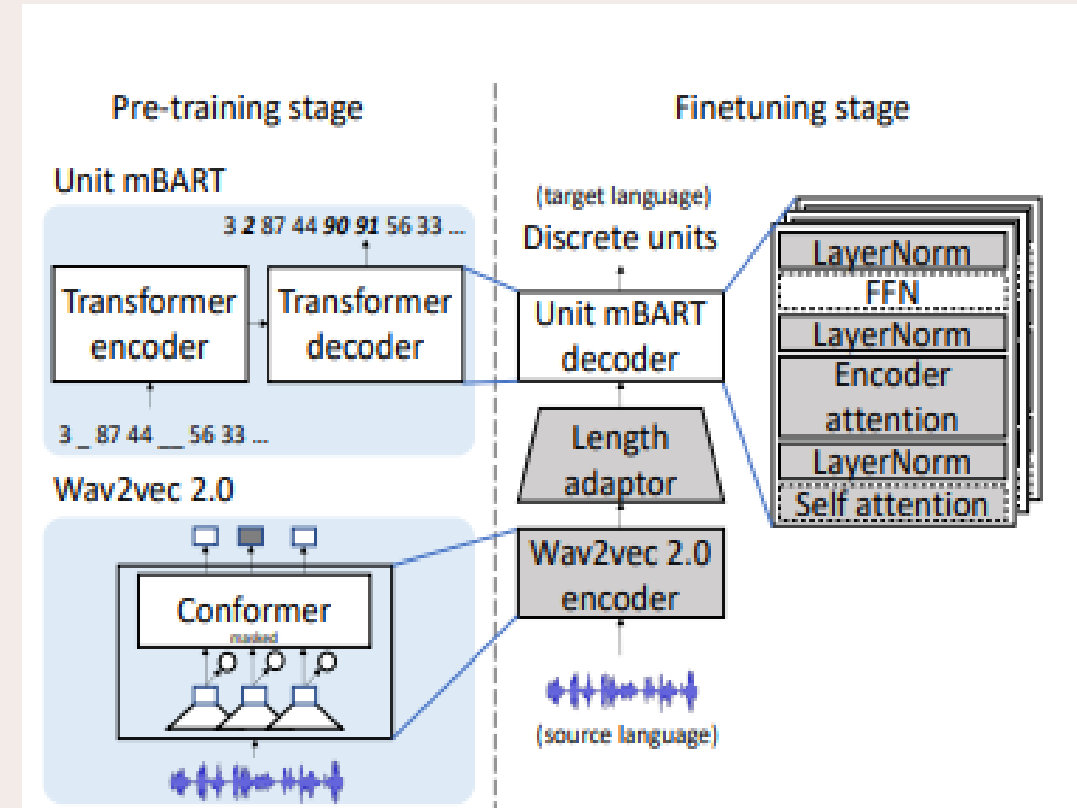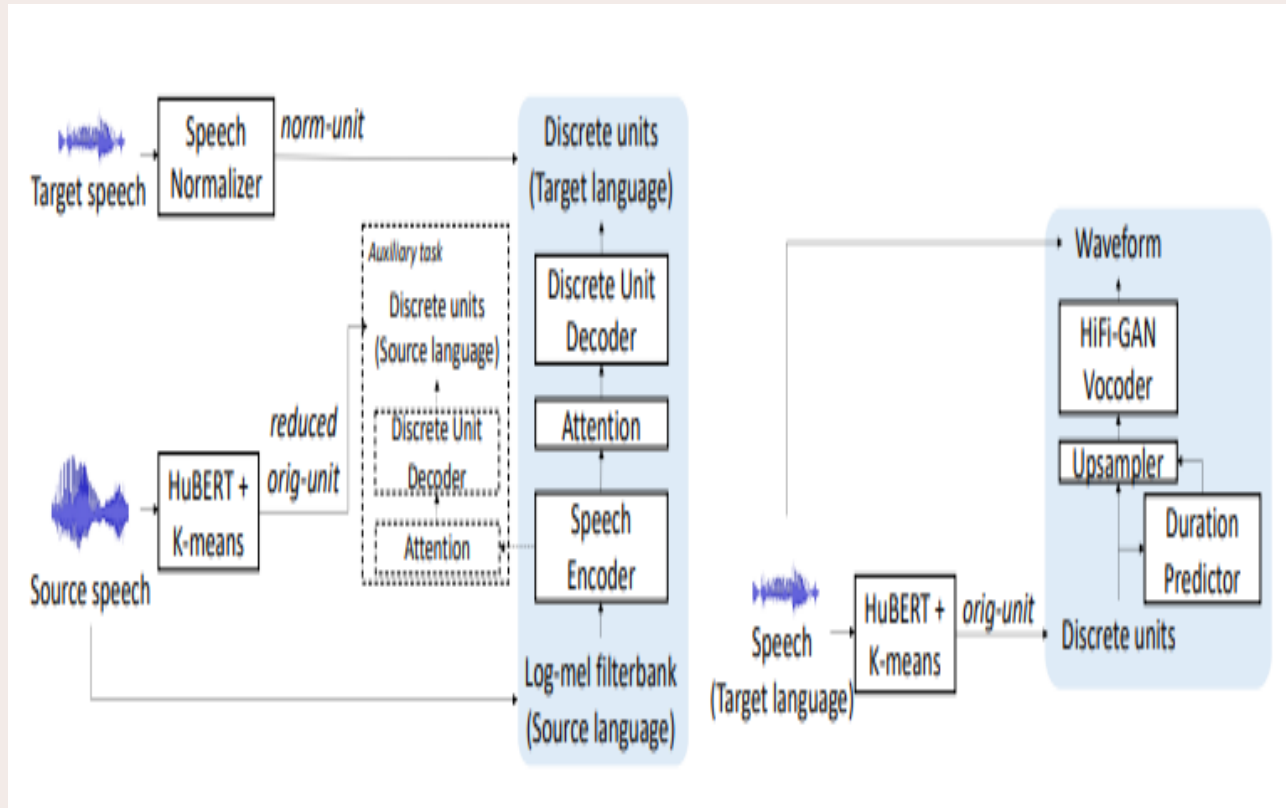
Primary goal

To translate speech from one
language to another.
Ex.:- English to Hindi

Flow Chart

Main Logic

Areas of focus

Contextual Understanding

Translation accuracy increases as context-aware models are enhanced. In order to deliver more pertinent and natural translations, this entails taking user preferences, conversation history, and contextual clues into account.

Multimodal Integration

The quality of translation can be improved by combining speech with other modalities like text or graphics. Bringing together several sources of information enhances communication fidelity overall and aids in capturing subtle messages.

Summary

Automatic voice recognition, machine translation, and context-aware language models are all used in speech translation models to transcribe spoken words. They can synthesize translated speech output and provide translations in real-time, enabling smooth communication between speakers of different languages in a variety of contexts.

Thank you

Team Delta