



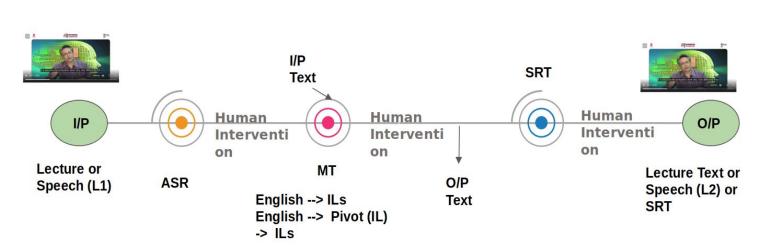


Speech to Speech Machine Translation (SSMT)

ABSTRACT

The Larger goal is to have capability which can transcribe, translate, subtitle and can convert translated subtitled text into audio for a given Audio/Video.

Approach



Components

- Automatic Speech Recognition (ASR)
- Pre-Processing/Editing on ASR
- Machine Translation
 - English to ILs
 - ILs to ILs
- Subtitling
- Text to Speech

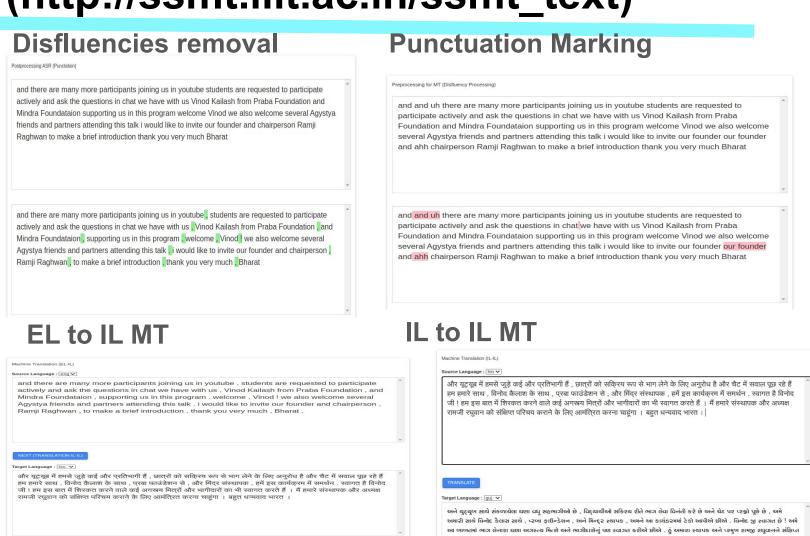
Challenges: Gaps (ASR to MT)

okay , so , that is about working with incomplete information . the this thing, the ai techniques also are capable of uh working in a fault tolerant way what do i mean by fault tolerant way? suppose if i i am providing information which is less than uh sorry, i provide information which is partially incorrect I for example I ii have a friend who told me that he lives in a a society called ratlam society . i i just heard that thing over phone I i was looking for that uh um uh society I i i asked panwala I where this ratlam society is ? the panwala said there is no ratlam society nearby but there is a satnam society nearby I how could that panwala find out the real answer ? i have not provided him correct input but the pa... panwala could get that I how ? because his mind was capable to process the incorrect information and get the correct answer I are we able to do that ? are our programs... all of us are able to do that in fact, but can our program do it ? can my database, suppose if i have a database , i have indexed my database on customer name but if i provide an incorrect customer name, can my database return with right customer uh data ? think of it , if you can do that , if the program can do that , it is it is exhibiting ai technique .

Punctuations, Disfluencies, Pet Phrases, Domain terms, Repair, Repeat, etc.

- Disfluencies removal
- Punctuation marking
- Sentence/utterance segmentation
- Repair identification and removal
- Special notation identification and marking
- Domain Terms Identification

Process: Tools + Human In the Loop (http://ssmt.iiit.ac.in/ssmt_text)



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Future Work:

- Capability for MT to handle noisy ASR output
- Capability for MT to Incorporate Spoken Prosody