

Multilingual Language and Speech to Speech Translation

M.Tech. Artificial Intelligence, Second Year, NMIMS

Ву,

Bilal Hungund, Data Scientist, Halliburton

Multilingual Speech Processing	Language Modelling:
Acoustic Modelling	- Portability of multilingualism modelling
> Language Modelling	Morphological Complexity
-> Speech Synthesis	-> Word segmentation
> Challenges	
Acoustic Modelling	-> Probability assignment
-> Speech into sequence of words	Challenges
-> Modelling stages -> Acoustic Model - speech features	> non-native speech
-> Pronounciation Model - pronounciation dictionary	-> Dibilects
-> danguage Model - probability of wood sequences	> Accents
-> Decoder - most likely word sequence	-> Local interfaces

Speech - to- Speech Translation

-> Interlingua based and statistical implementation

-> NESPOLE frame work by CMU

References

• https://www.sciencedirect.com/book/9780120885015/multilingual-speech-processing