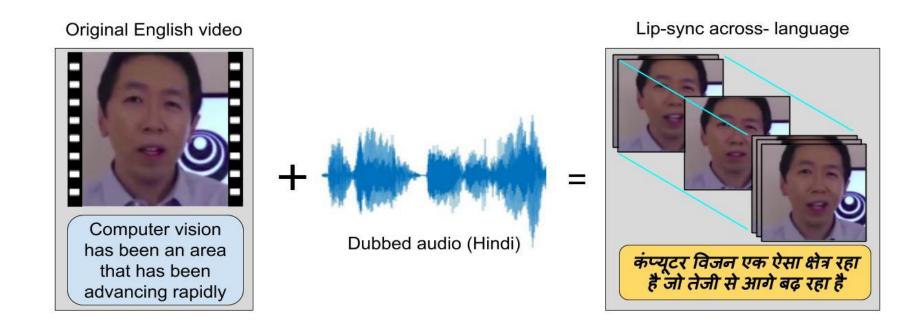






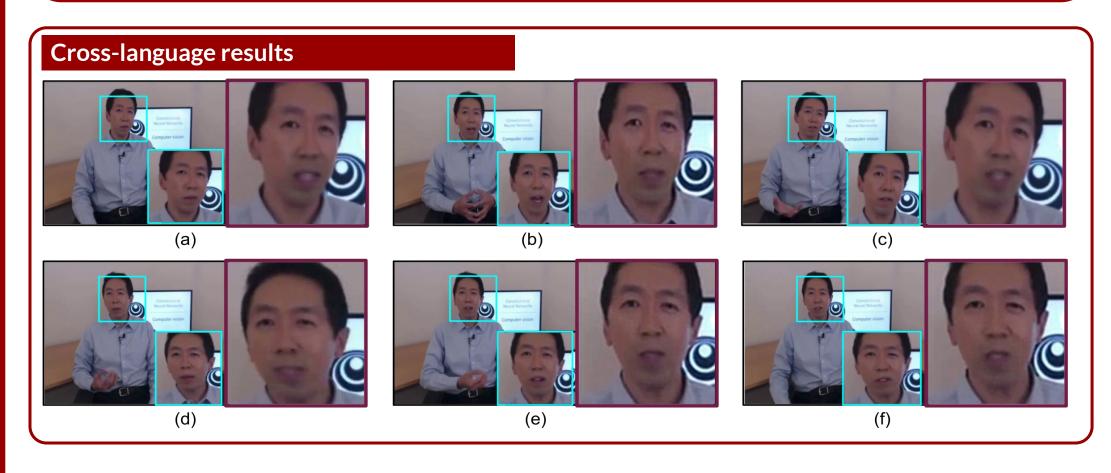
Motivation

Goal: Given a video in foreign language, and dubbed speech in regional language, synchronize the lips in video to match the dubbed audio.



- Exponential growth in internet user in the last few years.
- A majority of these users are college/school-goers and young adults. *
- Diverse demographic of students all over the world enroll in MOOCs

Challenges: Audio to lip fiducial generation, cross-language lip synchronization, cross identity lip synchronization.



Contributions

- Developed a cross-language lip-synchronization model for dubbed speech videos (e.g. Hindi dubbing for English videos).
- Developed an automated pipeline to curate a dataset to train the proposed model.
- Conducted a user-based study, which shows learners prefer lip-sync * for dubbed videos.



Email: <u>abhishek.jha@research.iiit.ac.in</u> vikram.voleti@gmail.com

Project page: preon.iiit.ac.in/~abhishek_jha/lipsync_inst_vid

