

Tell us what your idea is.

When people want to go to new places where the native language is different from theirs, it becomes extremely difficult, especially for old-aged people(or even middle-aged people). This is the main reason why people don't prefer traveling to places with different languages although they have a strong desire to travel.

So my idea is to build an app (called **Live Translate**) that uses **ML Kit, AutoML Translation and AutoML Natural Language** to translate the others' speech and tell them what others say spontaneously and help them to have an actual conversation via this app. This can be done both by inputting the audio and video. Another feature of this app is the live translation of chat where the user will be able to type or speak in their own language, which will be translated simultaneously as they type or speak and sent to the other person. This helps in various scenarios, one is while chatting with others and another situation where a physically challenged person, who couldn't speak but could perform other activities normally, is trying to have a conversation and for blind people, in the tourism department, in situations wherein a blind person could be kept at the tourist spots and tourists could have effective communication with them via the app to answer their queries. This will be of great help to these type of people as this app facilitates to have an effective conversation and thereby making them more employable.

Tell us how you plan on bringing it to life.

This is still in idea phase and I am doing a research how this could reach people and what additional features could be added on it.

I could use Google's help to get my doubts cleared during the development phase and to get feedback on the code quality. I believe Google's mentorship will help me to set on the right track during the development phase, make me more open to wide options available out there, to improve the way I work on project and of course I will learn something special out there from Googlers and explore the Googliness in me.

Timeline:

December

- Learn Tensorflow Lite and other sets of AutoML libraries to create a road map of how these libraries could be used effectively.
- Create mock-up screens.



January

- Create UI screens in Android based on Material Design.
- Working on Data Collection, Data wrangling.
- Start building up the features one by one test it fix it until it works fine, using the required Google's ML Libraries.

February

- Attend the Google's training get more insights directly from Google Team. Clarify doubts by building the most important features.
- Connect the various small features made to make it work for what it was made for.

March - April

- Do some more integration part.
- Create a custom model if required.
- Add extra features (if necessary)
- Make the app more accessible across various devices.
- Testing -> Fix -> Rebuild

1st May

• App should be live in play store.

Tell us about you.

I'm Kavin Raju S, final year student pursuing B.Tech EIE in SASTRA Deemed To Be University, DSC Lead at our campus and also an Associate Android Developer. I have a great passion for making materialistic apps that could create an impact in at least thousands of life. I could make apps more eye-catching, hand grabbing. I am working on apps for my college's fests. I am a Google Udacity India Scholarship Recipient where I learnt advanced concepts of Android and was selected as one of the top 3 performers and got a chance to attend Google I/O'19. My passion to do something for other never reaches saturation state.

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