

NCERT – Diksha Application Speech to Text

NCERT at a glance

The National Council of Educational Research and Training (NCERT) is an autonomous organization set up in 1961 by the Government of India to assist and advise the Central and State Governments on policies and programs for qualitative improvement in school education.

ROADMAP

The customer will be implementing the same in the production to generate the texts for all their existing videos and live classes.

CHALLENGES

The DIKSHA platform offers teachers, students and parents engaging learning material relevant to the prescribed school curriculum. Teachers can access aids like lesson plans, worksheets and activities, to create enjoyable classroom experiences. Students understand concepts, revise lessons and do practice exercises. They had to use Speech Text APIs of Azure to convert and create subtitles for all the existing videos created in different languages and accents.

SOLUTIONS

Solution Assessment

- Carried out Analytics assessment, discerning key business requirements, building solution design on Azure, detailed architecture and TCO for the system

POC

- Implemented a Speech-to-text system for the client to generate the Texts at 90+ % accuracy using Azure Speech-to-text APIs for different languages.
- Further enhancements are sought at the production deployment.

OUTCOME

The integration of Azure Speech Text APIs into the DIKSHA platform now enables the automatic conversion and creation of subtitles for all existing videos. This enhancement ensures accessibility and inclusivity, allowing teachers, students, and parents to engage with learning materials more effectively, irrespective of language or accent differences.

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