

MICRO PROJECT ABSTRACT

Title of Idea	AI-based Speech Recognition System for smart devices
Theme	Smart Device For Home Purpose
Description	<p>AI that mimic human intelligence to perform tasks and can iteratively improve themselves based on the information they collect & ML is focused on building systems that learn or improve their performance based on the data they consume. Smart Homes makes use of AI, and Internet of Things (IoT) devices such as connected sensors, lights, and meters. It helps to collect and analyze data. This data plays a important asset in making the effective use of home infrastructure, utilities, and more everyday life effectively and efficiently. Today, industry players such as Google, Apple and Amazon are more focusing on their smart assistants such as Google Assistance, Siri, Alexa where these work on ASR-Automated Speech Recognition.</p> <p>Automatic Speech Recognition is the technology to process human speech into readable text. As ASR quickly approaches human accuracy levels, there will be an explosion of applications taking advantage of ASR technology in their products to make audio and video data more accessible. popular applications we use every day such as TikTok and Instagram for real-time captions, Spotify for podcast transcriptions, Zoom for meeting transcriptions, and more. In this project, the advanced version of developed (to be developed by us) ASR technologies are to deploy in to hardware for estimating their real time performance.</p>

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