

# Autonomous Self Learning Based Training Device for Alzheimer Patients

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## Abstract

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## Abstract:

Alzheimer's disease may frequently present with symptoms of visual impairment (AD). A degenerative neurologic condition called Alzheimer's disease results in the death of brain cells and brain shrinkage. Recent research has demonstrated the possibility of visual therapies to improve AD patients' functioning. Clarification of the visual deficiency profile in AD and potential processes underlying these abnormalities are thus required. Hence, utilising face detection and sign languages, we proposed a camera-based detection system that would enable people with vision impairments or Alzheimer's disease to recognise text on printed labels or books, names of things in real-time, and names of familiar people. We use an OCR (Optical Character Recognition) technique to convert image to text so that you can read the texts from books. Once the images have been transformed into text, we are able to recognise recognised faces, real-time objects, and text by employing machine learning. The Text to Speech API's Convert to Audio output is what is anticipated.

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