MAJOR PROJECT

SCREEN INTERPRETING ASSISTANT

ABSTRACT

Websites have huge and valuable amounts of information in a transactional format. Developing websites which are accessible to all the users has become a priority. Thus, everyone can use the internet and experience their true potential. Despite visually elegant websites, accessible for visually impaired people is complicated.

Screen readers (SRs) made much of this information available to visually impaired users. However, since their development, screen readers have offered only limited access to all information on the web page. Often these screen readers either be verbose or skim through information which is biased by accessibility of the website. The handling of SRs comes with numerous and complicated keyboard commands and shortcut keys.

Voice assistants (VAs) work comparatively better than screen readers in terms of interaction. They interact vocally using voice commands and perform tasks based on the keywords identified in the conversation. Existing systems of voice assistants have limited modular features such as reading out the contents of the webpages.

Webpages differ from each other in different ways such as in structure, design, content, and HTML elements. This project is about making a voice assistant that can analyze any type of website and understand its contents. This project helps in obtaining the information from the webpages and perform required actions on the webpage through user voice command. Through this assistant, users can interact with websites with only voice commands, which helps visually impaired users effectively.

Keywords: Screen Readers, Voice Assistant, Natural Language Processing, visually impaired web Users.

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