

Smart Shopping Facilitator for Visually Impaired using Speech to Text AI Model

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Abstract: *Visual impairment is one of the disabilities of a human being. To date, numerous methods have been proposed to enhance the lifestyle of visually impaired and blind people. Still, purchasing products in the e-shopping application without others' support is tricky for them. The project describes a system that guides to help them in identifying and purchasing products in a supermarket application. The audio instructions will assist them inside the supermarket application based on real-time situations. To make the supermarket smarter, the billing system is automated, eliminating the existing queuing system. The ultimate aim of this system is to eliminate the need for others' support during shopping and provide visually impaired people with a convenient and sophisticated environment. Implementing this system will facilitate shopping for blind people, save customers' time, and promote business sales*

Keywords: Smart Shopping, Visually Impaired Speech-to-Text, Assistive AI, Voice Interface

