

# AI Generated Vision Cart

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## **Abstract:**

E-commerce accessibility remains a challenge for individuals with disabilities, limiting their shopping experience. This paper proposes an accessible e-commerce platform that integrates real-time features, AI-based product search, and an AI-powered product recommendation system to enhance usability and personalization. The AI-based product search leverages natural language processing (NLP) and image recognition to improve search accuracy, while the AI-powered recommendation system employs machine learning algorithms to analyse user preferences and deliver personalized product suggestions. Additionally, the platform ensures inclusivity through voice-assisted navigation, screen-reader compatibility, and gesture-based interactions for visually and hearing-impaired users. This approach significantly improves user experience, making online shopping more efficient, intelligent, and accessible for all.