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- Priya K C Gadade

[4PM19CS070]

- Sinchana A M

[4PM19CS089]

- Sneha Manjunath

[4PM19CS090]

- Sohan D A

[4PM19CS091]

**ABSTRACT**

This abstract discusses the challenges faced by visually impaired individuals in accessing reading resources independently and the evolution of assistive technologies to address these challenges. It explores various technologies that have been developed over time, from early Braille-based systems to modern optical character recognition (OCR) solutions. The abstract emphasizes the limitations of existing technologies, such as their high cost, bulkiness, and lack of real-time effects. It also highlights the need for a computationally inexpensive algorithm that offers satisfactory results using cost-effective methodologies. The paper aims to present such an algorithm to provide more accessible and affordable solutions for visually impaired individuals in accessing reading resources.