SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057

Department of Computer Science and Engineering

Certificate

SAPTHAGIRI
College of Engineering

Certified that the project work entitled **"Design and Development of Braille to text and speech convertor to assist the blind"** carried out by **RASHMITHA.A.R (1SG12CS090), SHALINI.N (1SG12CS100), SHEELA.V.HASYAGAR (1SG12CS101), VISHAL TRIPATHI (1SG12CS120),** bonafide students of **this institute**, in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during the academic year **2015-16.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work (10CS085) prescribed for the said degree.

Signature of the Guide   **Signature of the HOD**   **Signature of the Principal**

Prof. Sushmitha J   **Dr. Prashanth C.M**   **Dr.Aswatha Kumar M**

Assistant Professor   Professor & Head   Principal

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ABSTRACT

Blind people need to become as independent as possible in their daily life in order to guarantee a fully social inclusion. It is critically important for the lives of these people as the ability to read and write in Braille. This opens the door to literacy, intellectual freedom and equal opportunity. Braille education remains important for reading skills among blind and low vision children. Braille literacy correlates with higher employment rates. It has been argued that Braille is being less relevant tool for blind individuals. Hence a system has been designed and developed for Braille to text and speech convertor to assist the blind using Image Processing. To achieve this, we would implement an algorithm "Threshold based segmentation" which provides best and fast approach with better performance and accuracy compared with the existing methodology.