VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 018

PROJECT REPORT ON

"ACCESSIBILITY BOOK SCANNER WITH AUTOMATIC PAGE TURNER"

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

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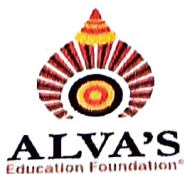
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOG

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Shobhavana Campus, Mijar – 574225

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2023-2024

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled **"ACCESSIBILITY BOOK SCANNER WITH AUTOMATIC PAGE TURNER"** *is a bonafide work carried out by*

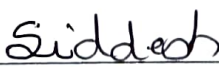|	
Harshitha D K	4AL20EC013
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in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2023–2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

The use of high-speed, accessibility book scanner with automatic page turner aiming to improve the speed of digitizing books that is currently slowed down by manual page turning. The machine operates contactless, ten times faster than conventional methods and uses "book flipping scanning" to scan large stacks of paper while the user flips pages.

The key point is how the system can decrease the user's workload when scanning document information on many pages. This low-cost device aims to provide assistive technology for individuals with disabilities, enabling them to turn and hold pages independently using a mechanical structure. The technical challenge is to realize an easy-to-use, simple, and high-speed scanning system. Digitizing books has been an issue tackled by companies to allow people to read off Kindles and iPads rather than the traditional paperback. Not much effort has been made into the invention of an automatic book scanner for consumers. This project seeks to determine a cost-effective approach to book scanning to create scanned images of physical books. This project serves as a proof of concept for a reasonably priced automatic book scanner accessible to consumers. Potentially, the device may be used in libraries similarly to copy machines where the user pays to have their book converted to electronic form, however, security measures would need to be made over access to the digital images. If developed cost-efficiently enough, consumers may benefit as far as to have the device in their homes to convert their entire book collections to personal digital format.