VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590 018

A PROJECT REPORT ON

"AUTOMATIC SPEECH CONVERSION FROM ENGLISH TO KANNADA BRAILLE"

Submitted in partial fulfillment for the award of Degree of

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

By

ASHWINI	**4AL20CS025**
C SHWETHA	**4AL20CS032**
FATHIMATHUL RAMZEENA	**4AL20CS039**
KAVYA	**4AL20CS059**

Under the Guidance of

Dr. Madhusudhan S

Associate Professor

ALVA'S
Education Foundation

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI-574225, KARNATAKA

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MIJAR, MOODBIDRI D.K. -574225

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CERTIFICATE

This is to certify that the Project entitled "**AUTOMATIC SPEECH CONVERSION FROM ENGLISH TO KANNADA BRAILLE**" has been successfully completed by

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the bonafide students of DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2023–24. 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.

14.5.24

Head of the Department
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Dr. Madhusudhan S	Dr. Manjunath Kotari	Dr. Peter Fernandes
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External Viva

Name of the Examiners	Signature with Date
1.	
2.	

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

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DECLARATION

We,

ASHWINI

C SHWETHA

FATHIMATHUL RAMZEENA

KAVYA

Here by declare that the dissertation entitled, "AUTOMATIC SPEECH CONVERSION FROM ENGLISH TO KANNADA BRAILLE" is completed and written by us under the supervision of our guide Dr. Madhusudhan S , Associate Professor, Department of Computer Science and Engineering. Alva's Institute of Engineering And Technology, Moodbidri, in partial fulfillment of requirements for the award of the degree BACHELOR OF ENGINEERING in DEPARTMENT OF COMPUTER AND ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the academic year 2023-2024.The dissertation report is original and it has not been submitted for any other degree in any university.

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ABSTRACT

In this work, Automatic speech recognition with conversion to Braille script , helps the visually impaired individuals by converting the audio file into Braille Neue. The system enables real time conversion of spoken input into Braille output facilitating seamless communication for users where the voice is taken as input and produce the translated text in English Language and further these text are extracted are converted into Braille script which aims to enable visually impaired individuals . By using python libraries along with packages it takes voice as input in any format and convert the input audio file to wav format. Further these text is processed and produce the corresponding Braille script. This research explores the combining ASR technique with conversion of spoken content into Braille script. The study generally focuses to enhance the usability for every individual with visual impairments . By integrating these technology, the system offers an efficient and effective method for individual with visual impairments to interact with digital content and enhancing their accessibility , independence in various context.