

**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**

<b>ASHWINI</b>	<b>4AL20CS025</b>
<b>C SHWETHA</b>	<b>4AL20CS032</b>
<b>FATHIMATHUL RAMZEENA</b>	<b>4AL20CS039</b>
<b>KAVYA</b>	<b>4AL20CS059</b>

**Under the Guidance of  
Dr. Madhusudhan S  
Associate Professor**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY  
MOOBBIDRI-574225, KARNATAKA**

**2023 – 2024**

**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**

<b>ASHWINI</b>	<b>4AL20CS025</b>
<b>C SHWETHA</b>	<b>4AL20CS032</b>
<b>FATHIMATHUL RAMZEENA</b>	<b>4AL20CS039</b>
<b>KAVYA</b>	<b>4AL20CS059</b>

**Under the Guidance of  
Dr. Madhusudhan S  
Associate Professor**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY  
MOOBBIDRI-574225, KARNATAKA**

**2023 – 2024**

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MIJAR, MOOBBIDRI D.K. -574225

KARNATAKA



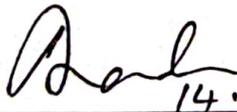
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

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

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

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

Dr. Madhusudhan S  
Project Guide

  
Head of the Department  
Dept. of Computer Science & Engineering  
Alva's Institute of Engineering and Technology  
Mijar, Moodbidri, Karnataka

Dr. Manjunath Kotari  
Head of the Department



Dr. Peter Fernandes  
Principal

External Viva

Name of the Examiners

Signature with Date

- 1.
- 2.

**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**MIJAR, MOOBBIDRI D.K. -574225**

**KARNATAKA**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**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.

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

## 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.