# VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI



**A PROJECT REPORT ON**

# "KANNADA VOICE ASSISTANT"

Submitted in partial fulfillment for the award of Degree of,

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE & ENGINEERING**

**By**

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

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

**MOODBIDRI-574225, KARNATAKA  2019 – 2020**

# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

## MIJAR, MOODBIDRI D.K. -574225, KARNATAKA

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

# CERTIFICATE

This is to certify that the project entitled **"KANNADA VOICE ASSISTANT"** 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 2019–2020. 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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| **Mrs. Merlyn Melita Mathias** | **Dr. Manjunath Kotari** | **Dr. Peter Fernandes** |
| **Project Guide** | **Head of the department** | **Principal** |

**External Viva**

**Name of the Examiners**                                **Signature with Date**

1. Dr. Manjunath Kotari

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# ABSTRACT

A voice assistant is a digital assistant that uses voice recognition, speech synthesis, and natural language processing (NLP) to provide a service through a particular application. Various Natural Language Processing (NLP) techniques using the python library, Natural Language Tool Kit (NLTK) these inputs of speech from users can be processed and intelligent responses from such system engine can be gained to build up a human-like interaction. The voice assistant is built with a limited dictionary but uses various components to imitate a person. The voice assistant can be used to find you a partner and help you in reading out, carrying commands operation, as a translator and much more. If the users, ask the question to the assistant it will give relevant answers in form of speech based on that question. The answers are appropriate to the user's queries, if the user find his answer to be invalid, it will give default message and will be recorded for improvisation. The components used are STT (speech-to-text) and TTS (text-to-speech) and building a voice assistant for Kannada in mind.