

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



A PROJECT REPORT ON

**“AUTOMATIC TONIC IDENTIFICATION IN
INDIAN ART MUSIC”**

Submitted in partial fulfillment for the award of Degree of,

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

By

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the project titled **“AUTOMATIC TONIC IDENTIFICATION IN INDIAN ART MUSIC”** 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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ABSTRACT

The Raga is the core of Indian Classical Music that is used in its composition, performance, improvisation and organization. Automatic Raga identification has potential use in various areas including music information retrieval, teaching music, learning of music, practicing of music, multimedia databases, interactive composition etc. Hindustani raga identification is a standard problem to artist that, over the years, have produced a detailed locution of Hindustani raga. This project propose an efficient system which generates the ragas for the live recorded audio file and also give more information about each and every raga that is been generated as the result the identification of Hindustani raga in the field can be made indirectly from its audio recorded tracks, using intelligent recording devices. This is an interesting form to monitor the Hindustani raga.