VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI - 590018

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A PROJECT REPORT ON

"ANALYZATION OF QUALITY OF COCONUT"

Submitted in partial fulfilment of the award of Degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

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CERTIFICATE

This is to certify that the Project work entitled **"ANALYZATION OF QUALITY OF COCONUT"** has been successfully completed by

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The bonafide students **of Department of Computer Science and Engineering, Alva's Institute of Engineering and Technology** in partial fulfilment of the requirements for the award of **BACHELOR OF ENGINEERING** in **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM** during the year **2018-2019**. It is a certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

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ABSTRACT

Coconut is one of the plants that are important enough to meet the daily needs of human beings. The aim of this project is to analyze the quality of a coconut and classify it based on its quality. Sound processing of coconut is done in-order to know its quality. The coconut quality is determined by classification using the data sets. The data set will have information for classification of coconut as poor, medium or good quality. It will be used to compare different attributes of a coconut and classify it into a class or category depending upon the quality. The quality of the coconuts used for various purposes is of atmost importance. Demand for better quality products is constantly on the rise due to the improvements in the standard of living of people. There is a possibility that a bad coconut goes unnoticed by the traders, as it is hard to decide if a coconut is good or bad by relying only on its external appearance. Traditionally, quality assessment is carried out manually with the help of three senses; sight, hearing and smell. In the proposed work, a sound processing technique is used in an attempt to automate this process which overcomes the drawbacks of manual processing, which can be used in large godowns and warehouses. This proposed method provides the quality assessment of the coconut purely based on audioception. The training dataset is created by using hitting the coconut with rigid object and the sound will be extracted. The rate of the coconut is also a important factor. Feature are extracted from the sound factor.