

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



**A PROJECT REPORT ON
“ARECANUT CLASSIFICATION USING TRANSFER
LEARNING”**

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
MOODBIDRI-574225, KARNATAKA, 2019 – 2020**

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
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CERTIFICATE

This is to certify that the project entitled **“ARECANUT CLASSIFICATION USING TRANSFER LEARNING”** 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

Arecanut or Betelnut is an important plantation crop in the Western Ghats, Eastern Ghats, East and North Eastern regions of India. Arecanut is a notified commodity in about 32 regulated markets of Karnataka. In a developing economy, the producer's surplus of agricultural product plays a significant role. As farmers have become production minded, resulted in overall development of market mechanism. Arecanut is a produce, which is made available to the non-producing population of the century. The major drawbacks and problems of arecanut marketing are poor packing, storage facility, transport, lack of holding capacity, existence of middlemen, method of sale, long chain of intermediaries, commercial grading, co-operative marketing and price fluctuations.

One prominent problem is of Commercial Grading. Many arecanut cultivators do not determine the commercial grade of their produce themselves. They usually mix up superior and inferior quality into a single lot. As a result, they get a lower price. The ordinary grading of whole nut is generally done by hand picking, by manual labourers. But in commercial grading, the different sizes are identified based on quality for its purpose.