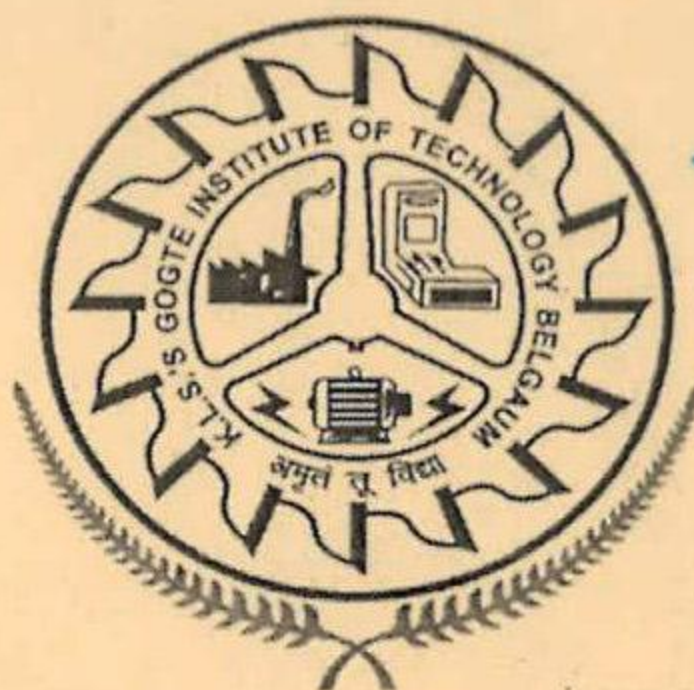


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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

**" Neural Network based Fruit Recognition System
Using Color and Texture Features"**

(Sponsored by K.S.C.S.T, Bangalore)

A Project Report

**Submitted in Partial Fulfillment of Requirements for the award of the
Degree of Bachelor of Engineering in Information Science & Engineering of
Visvesvaraya Technological University, Belgaum.**

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ABSTRACT

This Fruit Recognition system is designed to make human work easier in order to recognize the type of fruits and also detect its quality. This Recognition system is implemented by using MATLAB[8] which provides a Image Processing Toolbox and Neural Network Toolbox. It is an automated system where image of the fruit is extracted and further image processing techniques are used for fruit recognition and quality detection. Experimental results on a database consisting of 65 fruit images of 5 different fruits confirm the effectiveness of the proposed approach, with an efficiency of approximately 87%.