

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-560014, Karnataka



A PROJECT REPORT ON

**"FACE DETECTION AND RECOGNITION
FOR VIRTUAL EXAMINATIONS**

MODS

*SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIRE
AWARD OF THE DEGREE*

FOR THE

**BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING**

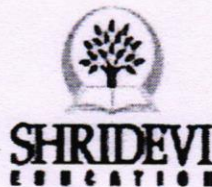
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Under the guidance of

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2021-22



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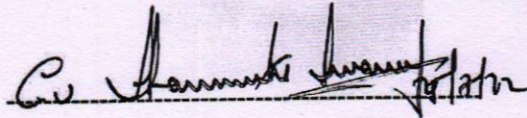
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

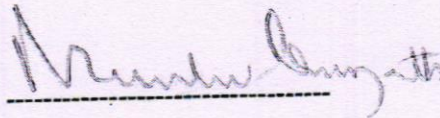
This is to certify that, the project entitled "FACE DETECTION AND RECOGNITION METHODS FOR VIRTUAL EXAMINATIONS" has been successfully carried out by Gaganashree T U [ISV17CS015], Dhanya Harika [ISV18CS011], Hada Amal Khan [ISV18CS019], Veena L C [ISV18CS0401], in partial fulfillment for the award of Bachelor of Engineering in Computer Science & Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2021-22. It is certified that all the corrections/suggestions indicated for internal assessments have been incorporated in the report. The project report has been approved as it certifies the academic requirements in respect of Final Project prescribed for the Bachelor of Engineering Degree.


25/7/22

Signature of Guide
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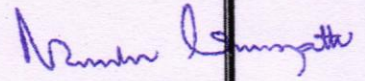


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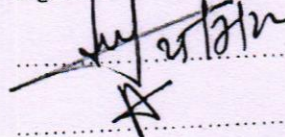


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Name of the Examiners

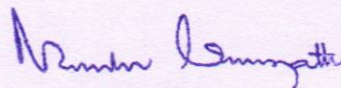
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ABSTRACT

Today's pandemic situation has transformed the way of educating a student. Education is undertaken remotely through online platforms. In addition to the way the online course contents and online teaching, it has also changed the way of assessments. In online education, educational institutions have adopting online examination portals for the assessments of the students. In the development of this technology, biometric systems are highly developed for use in various applications. Biometric systems are usually used to identify and analyze the characteristics of the human body such as fingerprints, retina, sound patterns, facial patterns and other body structures that can be used for system authentication. As well as facial recognition technology more and more used and developed for various applications including security systems, attendance systems or other things. As well as attendance system that is a recurring transaction because it is associated with controlling the presence of a person in activity. in the field of education, the attendance system is very important because the presence of students is part of a good assessment for teaching and learning. This research is to develop a prototype of face-based online exam application using an approach similar to Eigen face is used for extracting facial features through facial vectors and also attendance updating and emotion recognition like Normal, Fear, Tensed is implemented using pattern analysis and the datasets are trained using Support Vector Machine (SVM).



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