

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,  
BELAGAVI**



**A PROJECT REPORT ON  
“SKIN CANCER DETECTION AND  
CLASSIFICATION USING DEEP  
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  
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
CERTIFICATE

This is to certify that the project entitled **"SKIN CANCER DETECTION AND CLASSIFICATION USING DEEP 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 2020-2021. 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**

Skin cancer is one of the major types of cancers that can arise from various dermatological disorders and can be classified into various types according to texture, structure, color and other morphological features. Generally, skin cancer is of two types: melanoma and non-melanoma. Melanoma also called as Malignant Melanoma is the 19th most frequently occurring cancer in women and men. This is the deadliest form of cancer. Convolutional Neural Network (CNN) or ConvNet, are a class of deep neural networks, basically generalized version of multi-layer perceptrons. CNNs have given highest accuracy in visual imaging tasks. The model will be tested and trained on the dataset collected from the HAM10000 datasets archives.