

# **Skin Cancer Detection using EfficientNet**

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**The most increasing health issue is Skin Cancer so, the skin cancer should detected and accurated earlier for the effective treatment.**This study is porposes an Automated skin Detection using the EfficientNet models that ranges from B0-B4 it classify the dermoscopic images.This model was trained and evaluated in the HAM10000 dataset with the preprocessing and transfer the learning applied to enhaces the features of extraction and improvements classification perfomance.The experimental evaluation shows that advanced EfficientNet variants achieve higher accuracy and reliability in distinguishing between different types of skin cancers for example benign and malignant lesions. The proposed approach highlights the potential of deep learning in supporting dermatologists with faster consistent and more precise diagonosis contributing to improved healthcare outcomes.

**keywords:** Skin Cancer Detection,EffiicientNet,Deep learning, Image classification,Dermoscopic images,Early Detection.