CNN-BASED MULTI-CLASS SKIN CANCER CLASSIFICATION.

Presented by Group 9

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INTRODUCTION

This dataset includes both images of malignant and benign oncological diseases, which were formed from The International Skin Imaging Collaboration (ISIC). All images are sorted according to the classification taken with ISIC, and all subsets are divided into the same number of images except melanomas and mole, whose images are slightly dominant. The dataset provides a robust foundation for training and evaluating a multi-class image classification model.

RESEARCH QUESTION

How can a deep learning-based image classification model be developed and optimized to accurately classify skin lesions into nine distinct categories using the Skin Cancer ISIC dataset, and what is its potential to assist in early detection and diagnosis of skin cancer?

ABOUT DATASET

- Dataset Title: Skin Cancer ISIC
- Author: Andrey Katanskiy
- Source: Kaggle
- Total Images: 2357
- Image Resolution: Varying resolution
- Class Distribution: Benign and malignant lesions
- No of Class: 9

REFERENCES

Dataset:
https://www.kaggle.com/datasets/nodoubttome/skin-cancer9-classesisic
International Skin Imagin Collaboration (ISIC)