Although computer-aided diagnosis (CAD) is used to improve the quality

What do they THINK AND FEEL?

Given an image of the skin, we decompose the image to normalize and extract highlevel features

Using a neural network-based segmentation model to create a segmented map of the image

Diagnosis in various medical fields such as mammography and colonography, it is not used in dermatology

what really counts major preoccupations worries & aspirations

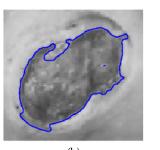
Our classification model is more accurate than a baseline model trained without segmentation

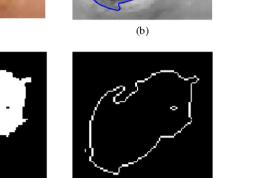
What do they HEAR?

what friends say what boss say what influencers say

> we then cluster sections of abnormal skin and pass this information to a classification model.



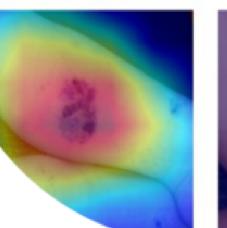


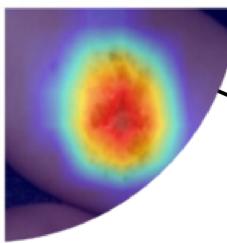


We classify each cluster into different common skin diseases using another neural network mode









Our segmentation model achieves better performance compared to previous studies, and also achieves a nearperfect sensitivity score in unfavorable conditions



What do they SEE?

environment friends what the market offers

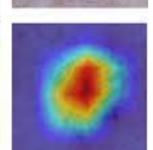
> while also being able to classify multiple diseases within a single image

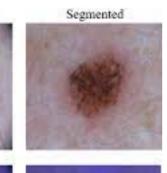
This improved performance may be sufficient to use CAD in the field of dermatology.

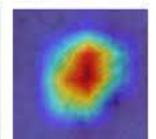












What do they SAY AND DO?

attitude in public appearance behavior towards others

that even without a large dataset and high-quality images

We have shown

We drew contours around each cluster and used a convex hull algorithm to draw rectangles around these clusters and crop them as individual images

PAIN

fears frustrations obstacles

These cropped images were used as input to the Efficientnet, which generated a prediction along with the confidence rate.

These images were then input to the U-Net to generate the segmented output

Computer-aided diagnosis (CAD) is a computer-based system that is used in the medical imaging field to aid healthcare workers in their diagnoses

GAIN

"wants" / needs measures of success obstacles

> CAD has become a mainstream tool in several medical fields such as mammography and colonography

Dermatologists perform most noninvasive screening tests only with the naked eye