



Skin Detector

Detect skin conditions quick and easy

CMPE 272 - Enterprise Software Platforms
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Introduction

- **One in five** Americans will develop skin cancer in their lifetime, and nearly **10,000** people are diagnosed with skin cancer **every day**.
- According to the American Academy of Dermatology, skin cancer is the **most common** form of cancer in the United States.
- On the positive side, skin cancer is one of the most treatable cancers if **detected early** and treated.





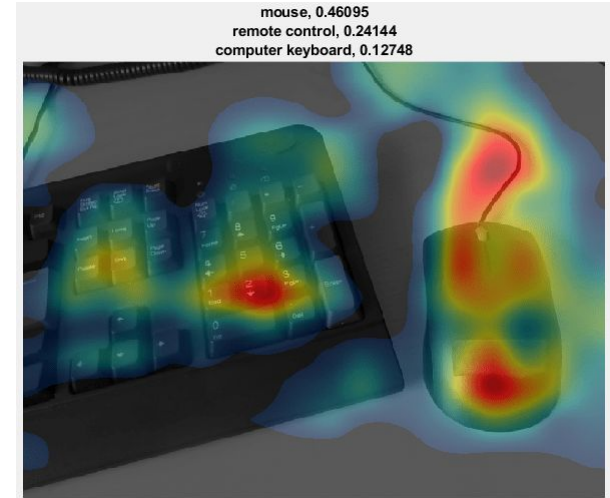
Introducing Skin Detector



- Android app to detect different skin conditions, currently supporting:
 - **Melanoma** (most dangerous skin cancer)
 - **Basal Cell Carcinoma** (most common skin cancer)
 - Melanocytic Nevus
 - Actinic Keratosis
 - Benign Keratosis
 - Vascular Lesions
 - Dermatofibroma
- **On-device** machine learning inference means **no internet connection** is required.
- Persona: people in **developing countries** with little to no access to **health care** and **internet**.
- Business value: **nonprofit** for the benefit of humanity.

Future Improvements

- Class activation map for greater explainability.
- Better machine learning models (accuracy/F1 score).
- Links to external articles for more information.
- Support for more skin conditions.





Download Now! (Demo)

- <https://expo.dev/@skin-detector/skin-detector>

