

## SpotCheckAI: User Guide

### **About**

SpotCheckAI is a PWA that employs a full-stack approach to detect potentially cancerous skin lesions. By uploading an image to the website, users can obtain a probability score indicating whether the lesion is benign or cancerous, based on a Convolutional Neural Network Model. In addition, the website features a chatbot that utilizes OpenAI's GPT-3 model to respond to inquiries about the results or the platform itself.

Note: Follow the Installation Manual prior to using this user guide.

### **SpotCheckAI Webpage**

Webpage: <https://raleung2-capstone-spotcheckai.web.app/>

#### *Home*

The landing page of the SpotCheckAI website.

#### *About Us*

Details about the creator/developer and the repository.

#### *Additional Information*

Comprehensive details regarding the skin conditions that SpotCheckAI is capable of detecting.

#### *Prediction Form*

1. To get started, click on the upload button on the homepage.
2. Select the photo of the skin lesion that you want to test for cancer. Please note that only image files in png, jpeg, jpg, and bmp formats are accepted.
3. Once you have selected the image, click on the submit button.
4. The page will send the image data to the SpotCheckAI model, which will analyze the image and output a result.
5. If the predicted result is less than 0.5, it means that the model predicts that the lesion is benign or non-cancerous. On the other hand, if the result is greater than 0.5, the model predicts that the lesion is cancerous.
6. In case the predicted result is showing an error, please contact us for further assistance.

Please note that the current model metrics are as follows:

Model ID: ImageClassifier04202023

Loss: 0.4901

Accuracy: 0.7718

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### *Chat Bot*

The ChatBot is powered by GPT, which means you can ask any questions you have about SpotCheckAI.

1. To ask a question, type your query in the chatbox and hit enter.
2. The ChatBot will respond with an answer or provide suggestions based on your query.
3. To view the chat history, simply scroll up in the chatbox. The chat history is automatically generated.

### *Contact Us*

A page designated for contact, allowing users to send inquiries or feedback directly to the developer.