

SpotCheckAI: API 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 API

Webpage: <http://127.0.0.1:7000/>

If no webpage shows, you need to initialize the Django Project found in the Installation Manual.

Create Super User

In order to access the admin interface, you need to create a super user.

1. Navigate to the backend folder in the terminal.
2. Turn on your python virtual environment.
3. Enter this command: `python manage.py createsuperuser`
4. Follow the prompts and create a super user.

Add Two Factor Authentication

Since the application processes sensitive information, we need to use two-factor authentication to protect the data stored.

1. Ensure that you are in the backend folder in the terminal and that you have initialized the python virtual environment.
2. Navigate to <http://127.0.0.1:7000/admin/>
3. Enter your username and password.
4. OTP_TOTP > TOTP devices > Press "+ Add"
5. Select "Add TOTP Device" on the upper right corner.
6. Follow the prompts and select "Save" when done.
7. On the "Select TOTP device to change" screen, select qrcode under QR CODE. This will open the QR code that will be used in Authenticator.
8. Open Authenticator (<https://googleauthenticator.net/>) on your phone/device. Other 2-step verification applications will also work.
9. Select the "+" button on the bottom right corner.
10. Select "Scan a QR code" and scan the QR code.
11. Now, every time when you log in, you will also enter an one-time password (OTP) based off of the Authenticator app.

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ChatBot

Selecting “Question responses” will display the question response objects. These are queries that were sent from the user to the GPT chat bot.

To DELETE All Question Responses (from the admin interface):

1. Navigate to <http://127.0.0.1:7000/admin/> and log in.
2. Select “Question responses”.
3. Select the “all” checkbox.
4. Next to Action, select “Delete selected question responses” and press Go
5. Confirm the deletion action.

To View an Individual Question Response (from the admin interface):

1. Navigate to <http://127.0.0.1:7000/admin/> and log in.
2. Select “Question responses”.
3. Select the Question on the list to view.
4. This will bring you to another page which will have the question and response fields.

View the API ChatBot Endpoint:

1. Visit: <http://127.0.0.1:7000/chat/qa/>
2. Only POST requests can be made.

ImageUpload (Prediction Form)

Selecting “Posts” will display the post objects. These are images in hex form along with the prediction based off the machine learning model.

To DELETE All Posts (from the admin interface):

1. Navigate to <http://127.0.0.1:7000/admin/> and log in.
2. Select “Posts”.
3. Select the “all” checkbox.
4. Next to Action, select “Delete selected posts” and press Go
5. Confirm the deletion action.

To View an Individual Post (from the admin interface):

1. Navigate to <http://127.0.0.1:7000/admin/> and log in.
2. Select “Post”.
3. Select the Post on the list to view.
4. This will bring you to another page which will have the image (in hex) and prediction fields.

View the API ImageUpload Endpoint:

1. Visit: <http://127.0.0.1:7000/api/posts/>
2. Only POST requests can be made.