**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.

**Accessing SpotCheckAI**

*The Webpage*

**On The Web**

Go to [https://raleung2-capstone-spotcheckai.web.app/](https://raleung2-capstone-spotcheckai.web.app/home) to access the front-end locally.

**Locally**

Prerequisites: git, npm, Ionic, React

Installing git: <https://git-scm.com/downloads>

Installing npm: <https://docs.npmjs.com/downloading-and-installing-node-js-and-npm>

Installing Ionic/React: <https://ionicframework.com/docs/intro/cli>

1. Once critical packages have been installed, navigate to the Github repository (<https://github.com/htmw/SpotCheckAI>). Press Code > Copy the HTTPS link
2. Navigate to a suitable directory (ie. Desktop, Documents) in the terminal. Once navigated use git clone <https://github.com/htmw/SpotCheckAI.git> in the terminal.
3. Navigate to frontend-website > spot-check-ai
4. In the terminal, run ionic serve –external and the webpage will open in the default internet browser.

*The Backend Interface*

**About**

The backend run’s locally on a user’s due to storage size of the repository and machine learning model. This section of the guide will show you how to interface with the backend of the application.

**Locally**

Prerequisites: Python < 3.10.7 (newer versions of Python will not work), OpenAPI Key (<https://platform.openai.com/account/api-keys>), pip, Macbook M1 users: homebrew

Installing Python: <https://www.python.org/downloads/release/python-3107/>

Installing pip: <https://pip.pypa.io/en/stable/installation/>

Create a Python Virtual Environment: <https://python.land/virtual-environments/virtualenv>

Activate the Python Virtual Environment: <https://python.land/virtual-environments/virtualenv>

1. Once the virtual environment has been activated, navigate to where you have the SpotCheckAI repository installed.
2. Install dependencies using the prompt pip install -r requirements.txt
3. Navigate to gpt-web-crawl-qa and install dependencies using pip install -r requirements.txt
4. Note: If you are using a Macbook M1, you will need to install HomeBrew (<https://brew.sh/>). The terminal will indicate which packages will need to be installed with HomeBrew and the prompt to enter in the terminal.
5. Back in the root folder, create a .env file and paste the OpenAI API key: OPEN\_API\_KEY = <PASTE YOUR API KEY HERE>
6. Navigate to the backend folder.
7. Use the prompt python manage.py runserver 7000 to run the server on <http://localhost:7000/>
8. Using the front-end webpage or front end local webpage, you should be able to make predictions and chat with the chatbot.
9. Note: to use this application on your phone, you need to replace “localhost” in <http://localhost:7000/> with your computer’s IP address.
   1. How to obtain your computer’s IP address: type “What is my IP address?” into Google.