

SpotCheckAI: Installation Manual

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/> 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/htmhw/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/htmhw/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/>

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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://127.0.0.1:7000/>
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 "127.0.0.1" in <http://127.0.0.1:7000/> with your computer's IP address.
 - a. How to obtain your computer's IP address: type "What is my IP address?" into Google.