

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 SpotCheckAl

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

- 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/

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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
- 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.
 - a. How to obtain your computer's IP address: type "What is my IP address?" into Google.

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