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Inspiration

Inspired by the groundbreaking advancements in Large Language Models like OpenAI's GPT, we embarked on our own journey to simplify the world of skin care. Introducing ProductSense AI—a newbie entrepreneur's brainchild that's geared to revolutionize your skin care game. We know the struggle; diving deep into ingredients lists, trying to decipher the chemical jargon, and then hoping you've picked the right product for your skin.

It's overwhelming! Our platform serves up concise, straightforward insights about your daily skin care products. No more guesswork; just clear, actionable information at your fingertips. Amidst the whirlwind of our daily lives, we aim to be that breath of fresh air, steering you confidently into the future of conscious consumerism. Join us on this exciting journey!

What it does

ProductSense AI, as the name suggests, comes up with most adequate responses, explained in simple terms that can be understood by a wide group of audience ranging from naïve to experts in the field of skin care products. It allows users to capture an image of any skin care product and generates a summarized context of how beneficial or harmful it would prove to be based on its corresponding composition.

How we built it

ProductSense.AI was created by using OCR to extract ingredient details from skincare product images. We then employed GPT-3.5 Turbo, a robust language model, to analyze these ingredients and provide clear insights on the product's advantages or concerns. This OCR and GPT-3.5 Turbo synergy underpins our platform, offering valuable skincare information from product label images.

HackPSU2023

We built our project in Python, utilizing OpenAI's GPT model and OCR model for converting image data into a text data consisting of a list of ingredients (and or composition) of the product inserted into the model. Once the list of ingredients is extracted from the input image, this is sent as an input to the GPT-3.5 Turbo, which further analyzes the ingredients and utilizing its existing knowledge, develops a summary about how effective or harmful the product would be, keeping in mind a wide set of audience.

Challenges we ran into

The major challenge that we ran into was the display of our project's logo on its webpage. Due to certain server restrictions, although it loads the logo image on the website, it is not visible as the webpage loads.

What we learned

We learned that it is hard to get a software to understand the context of a word. We learned to work in a team and how to use the Google API.

What's next for ProductSense AI

ProductSense.AI's future includes an expanded product database, personalized recommendations, e-commerce integration, real-time updates, expert community, indepth ingredient insights, a mobile app, global language support, user education, sustainability ratings, and an AI chatbot. We aim to empower users with accessible, informed skincare choices and a sustainable approach.

ProductSense.AI in action



Here is a quick product summary.

The main benefits of using this product are that it can help to cleanse the skin, remove impurities and also help to control sebum production. Additionally, it can help to soothe and refresh the skin. However, there are also some potential drawbacks associated with its use. These include the possibility of drying out the skin, causing irritation and potentially worsening acne.



Here is a quick product summary.

The benefits of using this product are that it can help to hydrate the skin, it can help to provide nourishment to the skin, and it can help to protect the skin. The drawbacks of using this product are that it could clog pores, it could cause breakouts, and it could irritate the skin.



Here is a quick product summary.

This product offers several benefits, including its non-poreclogging, water-based formula. It also contains soothing cucumber and ginseng extracts and provides gentle exfoliation through fruit acids. However, it has drawbacks such as the presence of phenoxyethanol, a formaldehyde-releasing preservative, potentially irritating citrus extracts, and methylparaben, which is suspected of being an endocrine disruptor.



Here is a quick product summary.

This product has several benefits, including the potential to stimulate hair regrowth on the scalp's top. It's specifically designed for men and is meant for external use only. However, it has drawbacks: it may not be effective for frontal baldness or receding hairlines, could potentially alter hair color and texture, and may not be suitable for all men.

There is more to it, get in touch with us to learn more!

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