Presentation

GIFT IDEA GENERATION

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INTRODUCTION

This project is an automated tool designed to generate personalized gift ideas. It uses personal interest data extracted from a CSV file and OpenAI's API to suggest gifts aligned with individual preferences. Additionally, it generates Amazon links for these gifts and provides explanations as to why each gift is suitable.

01 - KEY FEATURES

- Data Extraction: Reads a CSV file to obtain specific interests.
- Gift Generation: Uses OpenAI's API to suggest gifts based on the extracted data.
- Amazon Links: Creates direct links to Amazon for easy purchase of suggested gifts.
- Personalized Explanations: Provides AI-generated reasons why a gift is suitable.
- Creative Visualization: Generates a Christmas-themed image using DALL·E 3, showcasing the suggested gifts.

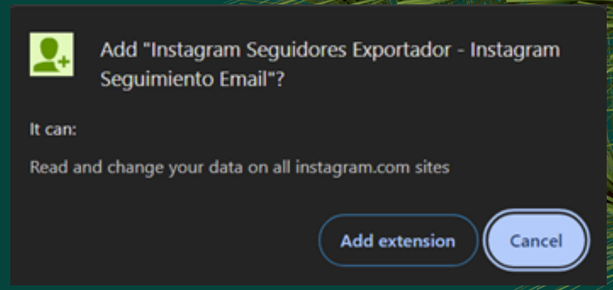
02 - REQUIEMENTS

- Python: The tool is written in Python, requiring a Python installation.
- Python Libraries: csv and re for data processing, openai and os for OpenAI API integration.
- OpenAI API Key: A valid OpenAI API key is required for AI services access.
- CSV File: A CSV file containing personal interest data, generated by the Chrome extension described in the README.

03 - USAGE

1. Dependency Installation: Install necessary libraries via pip.
2. API Key Setup: Provide the OpenAI API key to the program.
3. Data Loading: Enter the location and details of the CSV file generated by the Chrome extension.
4. Gift Idea Generation: The program will process the data and use OpenAI's API for gift suggestions.
5. Purchase Links and Explanations: The program will provide Amazon links for suggested gifts and explain why they are suitable.
6. Gift Visualization: A Christmas image with the gifts will be generated using DALL·E 3.
7. Cost Calculation: A cost calculation will be generated based on the tokens used in execution.

03 - PROGRAM EXECUTION IMAGES

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Given the list of followed accounts you provided for Paola, I believe these gifts would be liked:
Gift: 1. A Set of Aromatherapy Candles, Amazon Link: https://www.amazon.com.mx/s?k=1+A+Set+of+Aromatherapy+Candles
Gift: 2. Minimalist Jewelry Pieces, Amazon Link: https://www.amazon.com.mx/s?k=2+Minimalist+Jewelry+Pieces
Gift: 3. Skincare Gift Box Set, Amazon Link: https://www.amazon.com.mx/s?k=3+Skincare+Gift+Box+Set
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The explanation for these gifts is:
 Based on analysis of Paola's Instagram followings:

1. A Set of Aromatherapy Candles: Paola follows several wellness and home decor pages. These candles not only promote relaxation but also enhance the atmosphere of the room. Thus, a se

2. Minimalist Jewelry Pieces: The Instagram pages followed by Paola suggest a keen interest in fashion, specifically with a minimalist style. Therefore, giving her minimalist jewelry p

3. Skincare Gift Box Set: Paola follows multiple skincare influencers and beauty brands on Instagram. This indicates an evident interest in skincare and beauty routines. Therefore, a s
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[11] # Example of cost calculation considering the length of ChatGPT responses and a DALL-E image

     # Estimated rates
     PRICE_PER_CHATGPT_TOKEN = 0.00002  # Estimated price per token for ChatGPT
     PRICE_PER_DALLE_IMAGE = 0.02       # Price per image generated by DALL·E

     # Token estimation: Assuming each token is approximately 4 characters
     num_tokens_gifts = sum(len(gift) for gift in gifts) / 4
     num_tokens_amazon = sum(len(link) for link in amazon_links) / 4
     num_tokens_explanation = len("The explanation for these gifts is: " + explanations) / 4

     # Calculate the total cost of tokens
     token_cost = (num_tokens_gifts + num_tokens_amazon + num_tokens_explanation) * PRICE_PER_CHATGPT_TOKEN

     # Calculate the total cost including a DALL·E image
     total_cost = token_cost + PRICE_PER_DALLE_IMAGE

     print(f"The total cost in US dollars for this execution was: ${total_cost:.5f}")

     The total cost in US dollars for this execution was: $0.02657
```