



Group Project 3: Using the 'Old Farmers Almanac' Can Generative IA help users answer questions on the book?

Meet Team 7:
Frances Hollan,
Lane Melton,
AI Wagner

Data Overview

Collection	Details
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Creating Vectors	When creating the embeddings from the ALMANAC it was necessary to split the



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Results and Conclusions:



Executive Summary

- Find data worthy of searching.
- Create a Generative AI model.
- Link a user interface to data.
- Create a model that performs with quality outcomes.



*Image found at <https://www.mcdowellemporium.com/product/78271/THE-2024-OLD-FARMERS-ALMANAC>

Approach:

- Purchased the 'Old Farmer's Almanac'
- Used RAG to load in the data.
- Made some changes to the instructions to provide better outcome answers.
- Linked it with the GUI.
- Loaded in example questions.
- Checked for false answers/hallucinations.

Gradio User Interface

<https://efaeed4623ab068da4c.gradio.live/>

Test Questions

- Who was born on this day?
- What happened today in history?
- What day does summer begin?
- What is the best day to breed animals?
- What day is the best day to cut hair to encourage growth?
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- How rare is it?
- Under what conditions is it likely to be formed?
- What will the weather be this summer?
- What will the weather be this summer for the southeast?
- When can I view Jupiter in Boston?
- Tell me about Distaff day?
- Tell me about Leap Day Weather?

2 Solar Eclipses:
8 April, 2 Oct, 2024
2 Lunar Eclipses:
26 Mar & 17-18 Sept, 2024





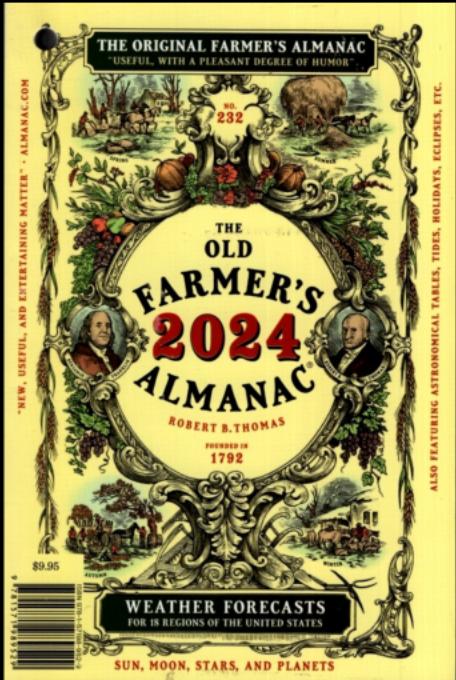
Find this image at: https://prezi.com/url/?target=https://unsplash.com/@raphaelfy?utm_source%3Dprezi_editor_image_integration%26utm_medium%3Dreferral

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Asking very specific questions created greater outcomes.

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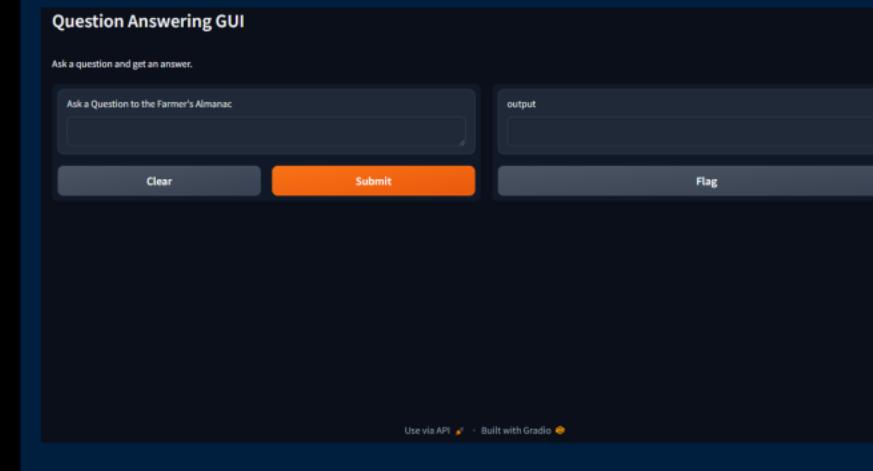
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Image found at: https://prezi.com/url/?target=https://unsplash.com/@cadop?utm_source%3Dprezi_editor_image_integration%26utm_medium%3Dreferral

Results and Conclusions:

Changing the instructions:
Provided better answers to the
questions.

Changing the questions:
Also, provided more clarity in the
answers as well.

- How the model performs depends on the questions that are asked.
- At times the model does pull in answers from outside sources or is unable to answer certain questions.

We attempted to add a mobile application Kivy but it needed to be created outside of a Windows environment.

Adding the GUI allows the user to ask questions and return an answer.

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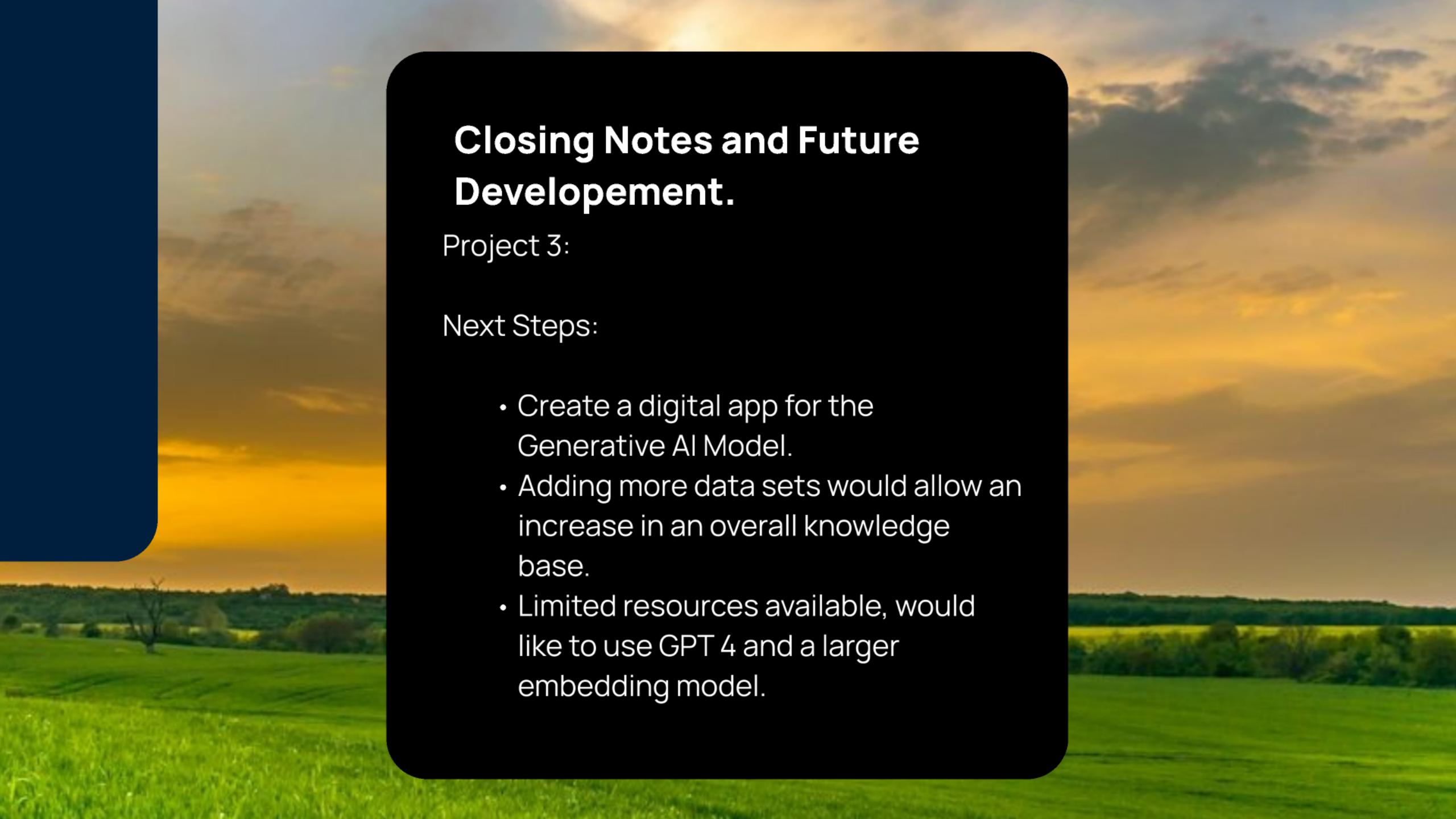
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Closing Notes and Future Development.

Project 3:

Next Steps:

- Create a digital app for the Generative AI Model.
- Adding more data sets would allow an increase in an overall knowledge base.
- Limited resources available, would like to use GPT 4 and a larger embedding model.

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