Project Report

Vignotto Lara – 111794

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Contents

1 Introduction

In this report, I will illustrate how I generated a short comic book story exploiting free online generative AI tools. The document is divided into the following sections:

- Tools and Methods: I will describe the AI tools and methods I used to generate the story;
- The Story – Plot and Text: I will present the story, how I generated the text, and the limitations I encountered;
- The Art – Images: I will describe how I generated the illustrations and the limitations and biases of the AI tools I used;
- Conclusions: I will draw some conclusions and discuss the results.

At the end of this document, there are two appendices: the first one contains the original prompts I used to generate the story, and the second one contains the original prompts I used to generate the illustrations.

2 Tools and Methods

I used two generative AI tools to generate the story and the illustrations. For the story, I used ChatGPT 3.5 [4], a conversational AI model developed by OpenAI. For the illustrations, I used DALL-E 3 integrated into Microsoft Copilot [3], a generative model developed by OpenAI and Microsoft. ChatGPT is an AI language model based on OpenAI's GPT (Generative Pre-trained Transformer) architecture. DALL-E 3 is also built upon OpenAI's GPT architecture, but it is specialized for image generation tasks.

I initially also tried to use other generative AI tools, such as Google Bard [2] and Microsoft Copilot to generate the story, and DreamStudio [1] to generate the illustrations. However, I found that ChatGPT and DALL-E 3 were the most effective tools for my purposes. I will talk about the limitations of these tools in the next sections.

To paginate the comic book, I used LaTeX, a typesetting system that is widely used for technical and scientific documents. I used the `tikz` package to create the comic book layout and the `graphicx` package to include the images.

All the code I used to write this report and paginate story and the illustrations is available on my GitHub repository [5].

3 The Story – Plot and Text

The story is a science fiction tale set in a future where humanity lives in an arcology, a massive, self-sustaining structure that houses communities and ecosystems. The protagonist is Dr. Evelyn Hayes, a communication scientist devoted to her work within the arcology. One day, she receives a mysterious message from an unknown source. Her young daughter seems to possess an intuition that the message is a cry for help from a distant planet. Dr. Hayes decides to investigate the message and embarks on a journey to the planet.

The story is intended as a pilot episode, and could be expanded into a series. The title, *Echoes of Hope – A Journey Beyond The Stars*, was also generated by ChatGPT. The comic book is divided into 12 pages, each containing 1 to 5 panels.

Methodology

I started by asking ChatGPT to generate a plot for a science fiction comic book.

> **Me:** Hi! I want to write a small story with an open ending (a pilot episode). The story is set inside the arcology humanity built as a last resort chance to perpetuate the human race. The main character could be a woman whose job is trying to communicate with long-distance computers or aliens, despite them being in deep space. Any suggestions?

Limitations

4 The Art – Images

Methodology

Limitations

5 Conclusions

A Appendix: Text Prompts

B Appendix: Image Prompts

References

[1] Dream Studio. https://dreamstudio.ai/. Accessed: February 14, 2024.

[2] Bard. Bard: A large language model from google ai. https://ai.googleblog.com/2022/01/lamda-language-model-for-dialogue-and.html. Accessed: February 14, 2024.

[3] Microsoft. Microsoft copilot. https://www.microsoft.com/copilot, 2023. Accessed: February 14, 2024.

[4] OpenAI. ChatGPT: A Large Language Model. https://openai.com/research/chatgpt, 2022. Accessed: February 14, 2024.

[5] Lara Vignotto. uni-generative-ai GitHub Repository. https://github.com/laravignotto/uni-generative-ai.