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Enhancing Summarizations and Presentations with Generative AI

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Abstract

Generative AI is revolutionizing the development of summaries and presentations by providing exceptional speed, consistency, clarity, customization, and visual augmentation. It can quickly process large amounts of information, condensing them into summaries that save time and capture important details. Even for complex topics, these summaries are guaranteed to be understandable and unambiguous, thanks to advanced language models. AI tools can also modify the tone, style, and level of content information to suit different audiences' needs. Furthermore, generative AI helps create slides, graphs, and other visual aids that enhance and enrich presentations. Finally, AI upholds a high-quality standard by guaranteeing that the data supplied is accurate and devoid of human error. By employing ChatGPT and Gamma tools, together with Prompt Engineering techniques, we will focus on this research to study two essential aspects to improve the speed of task accomplishment: summarizing and presentations.

Keywords: Generative AI, ChatGPT, Gamma, Prompt Engineering.

1 Introduction

Since generative AI provides unmatched speed, consistency, and clarity, it revolutionizes how we approach summarizing and presentations. AI

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summarizes complicated subjects into understandable, succinct summaries, guaranteeing the accurate recording of even the most minor details. Suggestions produced by advanced language models are clear and concise, making them perfect for many uses. Whether used for technical reports or ordinary communication, AI-driven summaries save time and provide high clarity and coherence, automatically tailoring information to varied audience needs. Apart from written synopses, generative AI enriches presentations with customized image enhancement. Programs like ChatGPT [2] and Gamma [4] simplify the development of slides, graphs, and other visual aids, enhancing and increasing information engagement. Users can adjust the tone, style, and amount of content in presentations to make them more appropriate for different audiences and situations with the help of AI. Generative AI raises the bar for quality by ensuring correctness and reducing human error. This study will examine how using these tools in conjunction with prompt engineering can significantly increase the productivity and speed of work involving summarizing and presentations.

2 Case study: ChatGPT Summarization

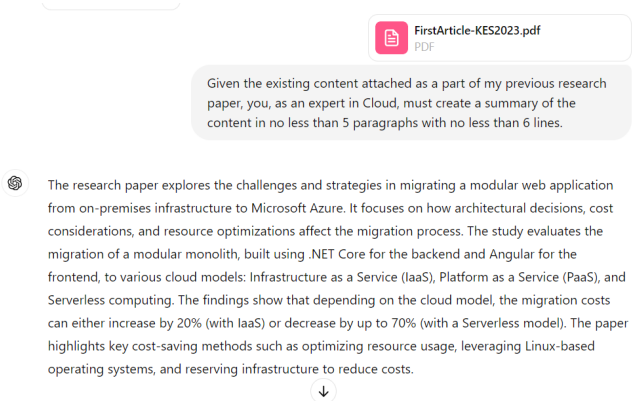


Figure 1. ChatGPT - Summarization prompt

Figure 1, based on this article [1], illustrates how, by using prompt engineering techniques, we can increase the pace at which we read competitive articles by simply asking the correct questions to elicit the appropriate response. The necessary components relate to constructing the proper prompt.

3 Case study: Create proper presentations by using Gamma tool

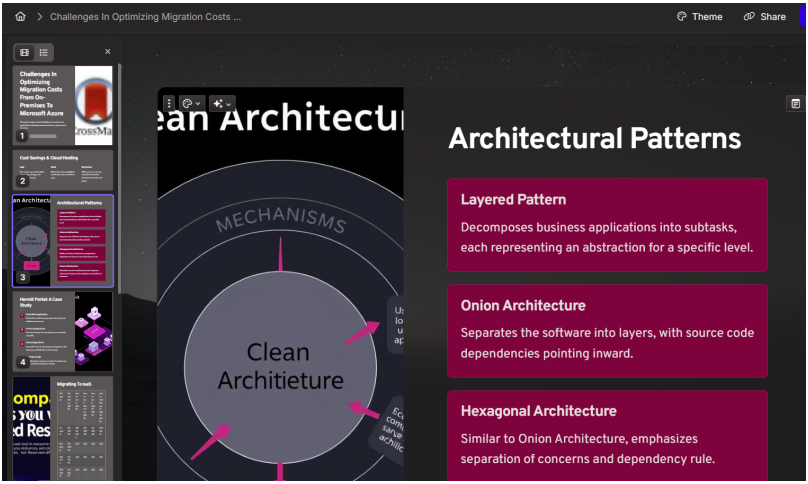


Figure 2. PPT presentation created with Gamma Tool

As shown in Figure 2, we can create PowerPoint presentations using the Gamma tool. It will be pretty simple for us to make presentations and modify the template. Our case studies illustrated each of these elements, which helps us increase our productivity.

4 Conclusion

With its speed, consistency, and clarity, generative AI is transforming presentations and summaries. It can condense complex topics into clear, short summaries that guarantee precise detail recording. Cutting-edge language models generate precise, succinct recommendations that save time and customize content to the needs of the audience. Apps like ChatGPT and Gamma simplify the development of visual aids and increase user engagement. This project investigates how generative AI might speed up and improve productivity in summarizing and presentations.

5 Future Work

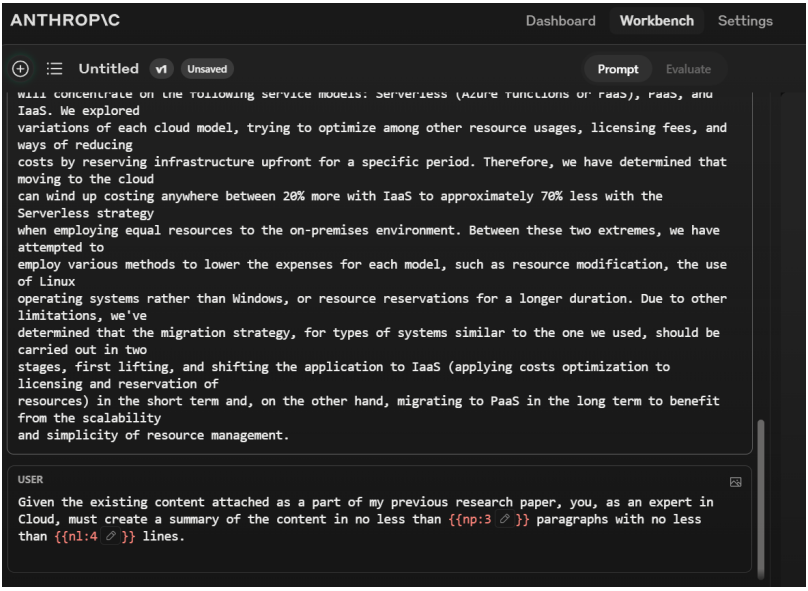


Figure 3. Anthropic and Claude tool

By contrasting Figures 1 and 3, we can see that Claude has several parameters we may set by providing additional information about the result, such as the number of lines and paragraphs. These features can also be defined in ChatGPT. The main difference is that Claude [3] allows you to supply these arguments as variables.

```
USER
Given the content attached that is part of a research {{paper:
    ...}}, as an expert cloud engineer and analyst, you must create an in-
depth technical summary of this content, in no less than {{np:10}}
paragraphs, where each paragraph contains no less than {{nl:5}} lines, and
specifically highlight the following items:

<document_summary>

<paragraph>

- Short description of the paragraph in one line.
- Long description of the paragraph contains no less than {{nl:5}} lines
- Highlight why this should matter to an non-technical executive,
indicating relevance, applicability, and context.

</paragraph>
```

Figure 4. Multiple parameters in Claude

As we can depict in Figure 4, first, we have the document summary, which, as its name implies, instructs the engine to direct all output to this location, thereby guiding the GenAI model. Next, we specify that the output should have a one-line description and a lengthy description of at least five lines for each paragraph. This is a variable that we can modify at a later time. We also aim to emphasize the significance of the paragraph for a non-technical executive. We will examine Claude's options and compare ChatGPT's functionality based on these factors.

References

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[2] ChatGPT. *https://chatgpt.com/.* Manuscript, 1988.

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[4] Gamma. *https://gamma.app/.*

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