**Introduction**

This report analyzes how different **prompt types** using ChatGPT 4.0 to use AI-generated responses. Three distinct prompts were used **Instructional, Question-Based, and Example-Based** and evaluated toassess **relevance, coherence, creativity, and accuracy**. Each prompt type plays a unique role in shaping AI outputs, and their effectiveness in generating well-structured, insightful responses is evaluated in this report.

**Instructional Prompt Analysis**

The **instructional prompt** required AI to provide a structured response to a specific task. The prompt asked: *“Write a 300-word summary of the effect of artificial intelligence in the product manager role and predict how this role will change in the next 5 to 10 years.”* The response effectively highlighted **AI’s impact on decision-making, data automation, and future responsibilities in product management**. It was highly **relevant**, providing a direct answer to the prompt. The **coherence** was strong, with a logical progression from present AI applications to future industry trends. The **accuracy** was high, as the response aligned with real-world AI applications. While the response was informative, there was some **room for more creativity**, especially in predicting AI’s long-term effects on the field.

**Question-Based Prompt Analysis**

The **question-based prompt** explored AI’s impact on medical imaging across different countries. The prompt asked: *“What are the effects of artificial intelligence in medical imaging, and how does it impact radiologists in Canada, the USA, and other countries?”* The AI response discussed how **AI enhances diagnostics, assists radiologists, and varies in adoption between countries**. It effectively addressed **relevance** by directly responding to the inquiry. The **coherence** was excellent, as the response was well-structured and provided country-specific insights. The **creativity** was evident in the way it highlighted different use cases of AI in healthcare. The **accuracy** was strong, reflecting real-world trends in AI-driven radiology, making the response both reliable and insightful.

**Example-Based Prompt Analysis**

The **example-based prompt** encouraged AI to generate multiple solutions for a given scenario. The prompt stated: *“One example of preventing the effects of global warming on healthcare is to ‘Monitor emerging and re-emerging diseases that may be influenced by changing climate conditions.’ Provide more examples on these grounds to reduce the effect of global warming on healthcare.”* The AI response included **AI-powered disease surveillance, telemedicine expansion, green hospital initiatives, and climate-resilient healthcare infrastructure**. This prompt type led to a **highly relevant** response, directly aligning with the requested examples. The **coherence** was strong, as the response logically built upon the initial example. The **creativity** was notable, offering diverse and forward-thinking solutions. The **accuracy** of the examples was well-grounded in scientific and technological advancements, making the response both innovative and factually sound.

**Summary and Conclusion**

Each **prompt type** guided AI to generate distinct response styles. The **instructional prompt** produced a **structured and factual response**, making it suitable for formal explanations. The **question-based prompt** encouraged **detailed, research-driven responses**, offering a deeper exploration of the topic.

**Screenshots**

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| Prompt Input and Type | Output |
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| Prompt Input and Type | Output |
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