

AI-Prompt Generator

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Abstract- This abstract presents a user-friendly AI prompt generator designed to assist individuals of all backgrounds in creating effective prompts for various applications. The generator employs a simple interface that guides users through the process of formulating prompts, ensuring accessibility for both novices and experienced users. Key features include customizable templates, examples for inspiration, and real-time feedback to enhance prompt quality. By democratizing access to AI technology, this tool aims to empower users to harness the potential of Artificial intelligence in their personal and professional endeavors.

I. INTRODUCTION

Artificial Intelligence (AI) has become an integral part of our daily lives, influencing various domains such as education, business, entertainment, and healthcare. One of the most essential aspects of interacting with AI systems is crafting effective prompts. A prompt acts as a bridge between human intent and machine understanding. The effectiveness of AI-generated outputs depends greatly on how the prompt is structured.

However, many users struggle with writing precise and well-defined prompts, resulting in vague or irrelevant responses. To address this issue, the concept of an AI Prompt Generator is proposed. The main objective of this project is to simplify prompt creation and enhance the overall quality of AI outputs.

The AI Prompt Generator provides an easy-to-use interface that automatically formulates structured prompts based on user input. It assists beginners, saves time, and ensures consistent and optimized results. The system can be tailored to various domains such as content writing, marketing, design, and customer support. By democratizing prompt engineering, this project enables every user—regardless of technical expertise—to harness the potential of AI effectively.

The AI Prompt Generator is designed to bridge the gap between human creativity and machine precision. By providing a user-friendly interface, it empowers individuals to craft high-quality prompts that unlock the full potential of AI systems. This tool is particularly useful for those who are new to AI or struggle with articulating their ideas in a way that machines can understand.

One of the key benefits of the AI Prompt Generator is its ability to save time and increase productivity. By automating the prompt creation process, users can focus on higher-level tasks such as strategy and creativity. This is especially important in industries where time is of the essence, such as marketing and customer support.

The AI Prompt Generator can also be used to improve the consistency of AI outputs. By providing a structured framework for prompt creation, it ensures that all prompts are well-defined and relevant to the task at hand. This is particularly important in applications where accuracy and reliability are crucial, such as healthcare and finance.

In addition to its practical applications, the AI Prompt Generator also has the potential to democratize access to AI technology. By providing a simple and intuitive interface, it enables users who may not have a technical background to harness the power of AI. This could have a significant impact on industries such as education, where AI can be used to personalize learning and improve student outcome

II. LITERATURE SURVEY

1. Early Work: Manual Prompt Engineering

Traditionally, prompts were manually written by humans. Researchers and users discovered that how a prompt is phrased greatly affects the AI's output quality.

Manual prompt engineering involved trial and error to find the best wording and examples.

The Origins of Prompt Engineering

The concept of prompt engineering emerged with the development of large language models like GPT-3. Researchers Brown et al. (2020) demonstrated that well-constructed prompts could significantly improve AI accuracy through few-shot prompting. This breakthrough highlighted the importance of carefully designed prompts in harnessing the potential of language models. As AI models became more sophisticated, the need for effective prompt engineering grew, paving the way for further research and innovation in this field.

The Challenges of Manual Prompt Writing

Manual prompt writing has been a labor-intensive process, often requiring extensive trial and error. Researchers and practitioners alike have struggled to craft prompts that elicit the desired responses from language models. The process heavily depends on linguistic intuition, making it difficult for non-expert users to achieve high-quality results. To address these challenges, researchers explored rule-based and template-based methods, which, while helpful, lacked the flexibility needed for more complex applications. This limitation underscored the need for more advanced and user-friendly solutions.

Automated Prompt Generation

The introduction of automated prompt generation systems like Auto Prompt marked a significant advancement in prompt engineering. Developed by Shin et al. (2020), Auto Prompt uses gradient-based optimization to generate high-quality prompts automatically. This approach not only saves time but also enhances the performance of language models by optimizing prompts for specific tasks. Automated prompt generation has opened new avenues for research and application, making it easier for users to leverage the power of AI without extensive prompt engineering expertise.

Understanding Prompt Sensitivity

Research by Wallace et al. (2019) on adversarial prompts revealed the sensitivity of language models to small prompt variations. Their work showed that even minor changes in prompts could lead to significantly different outputs, highlighting the importance of precise prompt engineering. This sensitivity underscores the need for robust prompt

generation methods that can produce consistent and reliable results. By understanding the dynamics of prompt sensitivity, researchers can develop more effective strategies for optimizing prompts and improving model performance.

The Future of Prompt Engineering

Despite the progress made in prompt engineering, there remains a significant gap in creating accessible tools for non-expert users. Liu et al. (2021) provided a comprehensive survey of prompting methods, categorizing them into manual, automatic, and hybrid approaches. As AI continues to evolve, the development of user-friendly prompt generation tools will be crucial in democratizing access to AI technology. Future research should focus on creating intuitive interfaces and robust algorithms that can cater to a wide range of users, from beginners to experts, ensuring that the benefits of AI are accessible to all.

The development of more sophisticated prompt engineering techniques will likely involve integrating insights from linguistics, cognitive science, and machine learning. By combining these disciplines, researchers can create more nuanced and effective prompts that better capture the complexities of human language and cognition. This interdisciplinary approach will be essential in pushing the boundaries of what is possible with AI and ensuring that these technologies are used to augment human capabilities.

As the field of prompt engineering continues to grow, we can expect to see more innovative applications and tools emerge. From improving human-AI collaboration to enabling more accessible and inclusive AI solutions, the potential impact of prompt engineering is vast. By continuing to advance our understanding of prompts and their role in shaping AI outputs, we can unlock new possibilities for AI applications and drive meaningful progress in various domains.

Summary: Prompt engineering has evolved significantly from its early days of manual crafting to the development of automated solutions. With advancements in large language models and techniques like few-shot prompting and Auto Prompt, the field has made substantial progress. However, challenges such as prompt sensitivity and accessibility for non-expert users remain. Future

research and development should focus on creating user-friendly tools and robust algorithms that can cater to a wide range of users, ensuring that the benefits of AI are accessible to all and driving innovation in various domains.

Applications of Prompt Engineering

Prompt engineering has far-reaching implications across various domains, including content creation, customer service, and education. By leveraging prompt engineering techniques, businesses can generate high-quality content, improve customer interactions, and enhance educational materials. Moreover, prompt engineering can be applied to develop more sophisticated chatbots and virtual assistants, enabling them to better understand and respond to user queries. As the field continues to evolve, we can expect to see more innovative applications of prompt engineering in various industries.

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III. PROPOSED METHODOLOGY

The proposed AI Prompt Generator methodology is designed to establish a structured and efficient framework for developing high-quality prompts that enhance the performance of various AI models. The approach emphasizes clarity, contextual relevance, and adaptability, ensuring that prompts

effectively guide the AI to produce accurate, coherent, and goal-oriented responses. The methodology integrates several key components—ranging from objective definition to iterative refinement—within a cohesive development process that promotes both usability and scalability across diverse applications.

The process begins with defining clear objectives for each prompt, outlining the specific purpose and expected outcome of the AI interaction. Establishing this objective ensures that the prompts align with their intended function, whether it involves generating creative content, delivering factual information, solving analytical problems, or assisting in decision-making processes. By clarifying the goal at the outset, the development process gains a focused direction that minimizes ambiguity in later stages.

Understanding the target audience forms the next crucial step in the methodology. Effective prompt creation requires consideration of who will interact with the AI and how they will use its output. Factors such as the user's knowledge level, linguistic proficiency, and contextual background influence the phrasing and tone of the prompt. For instance, prompts designed for technical professionals may require precise terminology, whereas prompts for general users demand simplicity and accessibility. Identifying the audience allows the prompt to be tailored for maximum engagement and comprehension.

Contextual relevance is another essential component of the proposed approach. Providing sufficient background information or situational context ensures that the AI generates responses that are accurate and appropriate to the given scenario. Context may include references to previous inputs, domain-specific data, or real-world examples. Embedding such details prevents vague or irrelevant outputs, improving both the precision and usefulness of the AI's responses.

The methodology also stresses the importance of clarity and specificity in prompt formulation. Each prompt should be constructed using clear, concise, and unambiguous language to prevent misinterpretation by the AI model. Explicitly stating the desired format—such as a summary, explanation, comparison, or list—further enhances consistency and predictability in the output. This precision helps

maintain alignment between user expectations and the system's performance.

To further strengthen the quality of responses, the methodology incorporates the use of examples and constraints within prompts. Providing model outputs or sample phrasing helps define the standard of quality expected from the AI. Constraints related to tone, length, or style ensure that the AI's responses remain relevant to the context and purpose. These parameters collectively guide the AI toward producing results that are both contextually accurate and stylistically appropriate.

The development of prompts follows an iterative refinement process, where continuous testing and feedback are used to enhance performance. Initial prompts are tested with representative inputs, and the resulting outputs are evaluated for relevance, coherence, and goal alignment. Based on this evaluation, the prompts are revised and re-tested until optimal results are achieved. This iterative cycle allows for incremental improvement and adaptability to different AI models or evolving requirements.

The effectiveness of each prompt is assessed using a concise set of evaluation metrics. These metrics include relevance, which measures how closely the output aligns with the intended goal; coherence, which assesses the logical flow and structure of the response; accuracy, which determines factual correctness; and creativity, which evaluates originality when required. User satisfaction serves as an overarching qualitative measure, capturing the perceived usefulness and clarity of the AI's responses.

Throughout the process, best practices are applied to ensure quality and consistency in prompt creation. Prompts are designed to focus on a single task, avoiding unnecessary complexity or conflicting instructions. Clarity, brevity, and direction are prioritized, while common pitfalls such as vague phrasing and lack of context are carefully avoided. This disciplined approach ensures that each prompt is purpose-driven and effective across different scenarios.

Documentation and knowledge sharing represent a vital part of the methodology. Each developed prompt, along with its objectives, performance metrics, and revision history, is recorded within a centralized repository. This repository enables

systematic knowledge sharing, facilitates collaboration, and supports the reuse of effective prompt patterns in future projects. Proper documentation also contributes to transparency and repeatability in prompt development.

Finally, scalability and adaptability are built into the design of the methodology. The framework is model-agnostic and can be extended to support various AI architectures and applications, from conversational systems and coding assistants to analytical and creative generators. Its modular structure allows for easy integration of domain-specific components and the incorporation of new evaluation techniques as AI technologies evolve.

Overall, the proposed AI Prompt Generator methodology provides a comprehensive, structured, and scalable approach to prompt engineering. By combining clarity, contextual awareness, and iterative refinement, it enables the creation of high-quality prompts that enhance the accuracy, relevance, and reliability of AI-generated outputs. This systematic approach not only improves user experience but also contributes to the broader goal of advancing effective human-AI interaction.

IV. SYSTEM IMPLEMENTATION

The system implementation of the AI Prompt Generator translates the conceptual methodology into a practical, maintainable, and extensible software solution that supports prompt creation, evaluation, and lifecycle management. At the core of the implementation is a modular architecture that separates responsibilities into distinct services: a user-facing prompt design interface, a prompt transformation and validation engine, an evaluation and feedback subsystem, a model integration layer, and persistent storage for prompt artifacts and telemetry. The user interface is implemented as a responsive single-page application that enables users to define tasks, supply contextual data, compose instructions, and preview example outputs; this front end is built with standard web technologies to ensure accessibility across devices and to allow rapid iteration on UX. The prompt transformation engine operates on the server side and is responsible for converting user inputs into machine-consumable prompt templates, applying formatting rules, injecting contextual variables, and enforcing constraints such as length limits or forbidden content patterns. Validation logic in this layer performs

syntactic checks, schema conformance, and lightweight semantic heuristics to catch ambiguous or conflicting instructions before prompts are dispatched for evaluation.

Integration with AI models is handled by an adapter layer that abstracts specific model APIs and capabilities. This layer exposes a uniform interface for different model types (e.g., large language models, image synthesis models, or specialized reasoning engines), allowing the same prompt templates to be tested across multiple backends with minimal change. The adapter normalizes requests and responses, tracks model-specific metadata (such as token usage or generation parameters), and supports experiment configurations like temperature, top-k sampling, or instruction-following toggles. To measure prompt effectiveness, the evaluation subsystem runs generated prompts through automated test suites and human-in-the-loop assessments. Automated evaluation includes metrics such as relevance scoring through semantic similarity, coherence estimation via statistical language measures, factuality checks using external knowledge sources where feasible, and heuristics for style and length compliance. Human evaluators provide qualitative feedback through an annotation interface that records ratings, comments, and suggested edits, which are then fed back into the iterative refinement pipeline.

Data persistence and versioning are implemented with a prompt repository that stores prompt templates, example outputs, revision histories, evaluation results, and metadata about intended audience and domain. Each prompt artifact is versioned to preserve the evolution of phrasing and to enable rollback or A/B comparisons. Sensitive contextual data is either redacted before storage or encrypted at rest to comply with privacy requirements; access controls and role-based permissions restrict who can view or modify prompt content. Logging and observability are integral to the implementation: event streams capture prompt creation, transformations, model requests, and evaluation outcomes, while monitoring dashboards visualize system health, latency, error rates, and model performance trends. Traceability is emphasized so that each final prompt can be traced back to its origin, test runs, and reviewer comments, supporting reproducibility and auditability.

The development process follows DevOps best practices with automated testing, continuous integration, and continuous deployment pipelines. Unit and integration tests cover prompt parsing, template rendering, and adapter integrations; end-to-end tests exercise the full pipeline from user input to model output and evaluation ingestion. Staging environments mirror production for safe experimentation, and feature flags enable controlled rollouts of new transformation rules or evaluation metrics. Scalability is achieved through containerized services orchestrated by a cluster manager, allowing compute-intensive tasks such as large-scale prompt evaluation or batch generation to be scheduled on demand. Caching is used judiciously for repeated template renders and commonly used contextual resources to reduce latency and model call costs.

Security and ethical safeguards are embedded throughout the system. Input sanitization, content filtering, and automated bias-detection heuristics mitigate harmful or inappropriate outputs. The final review step is supported by automated checks for potential fairness issues and by guardrails that flag sensitive topics for manual review. Privacy considerations guide the handling of user-provided context: personal identifiers are never included in prompts sent to third-party models unless explicitly authorized and are removed from stored artifacts unless strictly necessary. Compliance with organizational policies and legal requirements is maintained through configurable retention policies and data export controls.

Operationally, the System Implementation supports iterative refinement workflows where prompts are continuously improved based on evaluation signals. A feedback loop ingests automated metric outcomes and human annotations to suggest concrete edits to prompt wording or structure; suggested edits can be auto-applied under human supervision or queued for manual review. The system also supports template libraries and domain profiles that encapsulate best-practice prompt patterns for specific industries or tasks, enabling rapid onboarding for new users and consistent quality across teams. Documentation, user guides, and in-app contextual help accompany the implementation to foster adoption and to instruct users on ethical use and effective prompt-writing strategies.

V. ADVANTAGES

1. Improved Accuracy

Reducing Errors: Prompt engineering helps to craft precise and well-defined prompts, reducing the likelihood of errors and inaccuracies in AI outputs.

Improving Quality: By optimizing prompts, users can improve the overall quality of AI-generated content, ensuring that it meets their specific needs and requirements.

Enhancing Reliability: Prompt engineering can also enhance the reliability of AI outputs, making them more trustworthy and dependable.

2. Increased Efficiency

Saving Time: Automated prompt generation and optimization techniques save time and effort, enabling users to focus on higher-level tasks and strategies.

Streamlining Workflows: Prompt engineering can help streamline workflows, reducing the need for manual intervention and minimizing the risk of errors.

Improving Productivity: By automating prompt generation and optimization, users can significantly improve their productivity, achieving more in less time.

3. Enhanced Creativity

Generating New Ideas: Prompt engineering can be used to generate innovative and creative ideas, products, and solutions.

Exploring New Possibilities: By leveraging the capabilities of language models, users can explore new possibilities and push the boundaries of what is possible with AI.

Fostering Innovation: Prompt engineering can help foster innovation, enabling users to think outside the box and develop novel solutions to complex problems.

4. Better User Experience

Improving Response Accuracy: Well-designed prompts can improve the user experience by providing more relevant and accurate responses.

Enhancing User Satisfaction: By optimizing prompts, users can increase user satisfaction and engagement, building stronger relationships with their customers.

Personalizing Interactions: Prompt engineering can also be used to personalize interactions, tailoring responses to individual users' needs and preferences.

5. Personalization

Tailoring Content: Prompt engineering can be used to create personalized prompts and content that cater to individual users' needs and preferences.

Improving Engagement: By personalizing interactions, users can improve engagement and conversion rates, driving business growth and revenue.

Enhancing User Experience: Personalization can also enhance the user experience, making interactions more enjoyable and relevant.

6. Improved Language Understanding

Advancing Linguistic Insights: Prompt engineering helps to advance our understanding of language and its nuances, enabling more effective human-AI communication.

Improving Model Performance: By developing more sophisticated prompts, researchers can gain insights into the workings of language models and improve their performance.

Enhancing Language Generation: Prompt engineering can also enhance language generation capabilities, enabling more natural and coherent text.

7. Increased Productivity

Automating Tasks: Automated prompt generation and optimization can significantly increase productivity, enabling users to complete tasks more efficiently and effectively.

Reducing Manual Effort: By automating prompt generation and optimization, users can reduce manual effort, freeing up time for more strategic and creative tasks.

Improving Workflow Efficiency: Prompt engineering can help improve workflow efficiency, reducing the need for manual intervention and minimizing the risk of errors.

8. Democratization of AI

Making AI Accessible: Prompt engineering can democratize access to AI technology, enabling non-expert users to leverage the power of AI without extensive technical expertise.

Empowering Non-Technical Users: By providing user-friendly interfaces and automated prompt generation, prompt engineering can empower non-technical users to work with AI.

Promoting Widespread Adoption: Prompt engineering can promote widespread adoption of AI solutions, driving innovation and growth in various industries.

9. Flexibility and Adaptability

Applying to Various Domains: Prompt engineering can be applied to a wide range of domains and applications, making it a versatile and adaptable technique.

Tailoring to Specific Needs: By tailoring prompts to specific needs and requirements, users can achieve more effective results and improve overall performance.

Enabling Customization: Prompt engineering can enable customization, allowing users to adapt AI solutions to their specific needs and contexts.

VI. RESULTS AND ANALYSIS

The results of the study demonstrate the effectiveness of prompt engineering in improving the accuracy, efficiency, and creativity of AI-generated content. The analysis reveals that well-designed prompts can significantly enhance the quality of AI outputs, reducing errors and improving overall performance. Furthermore, the study highlights the

potential of prompt engineering to democratize access to AI technology, enabling non-expert users to leverage the power of AI without extensive technical expertise.

The findings also suggest that prompt engineering can be applied to a wide range of domains and applications, making it a versatile and adaptable technique. The analysis reveals that prompt engineering can be used to generate innovative and creative ideas, products, and solutions, and can be tailored to specific needs and requirements. Additionally, the study highlights the potential of prompt engineering to improve user experience, personalization, and language understanding.

The results of the study also demonstrate the importance of prompt engineering in improving the productivity and efficiency of AI systems. The analysis reveals that automated prompt generation and optimization can significantly reduce the time and effort required to generate high-quality AI outputs. Furthermore, the study highlights the potential of prompt engineering to improve the reliability and trustworthiness of AI outputs, making them more suitable for critical applications.

The analysis also reveals that prompt engineering can be used to improve the performance of language models, enabling them to generate more coherent and natural text. The study highlights the potential of prompt engineering to advance our understanding of language and its nuances, enabling more effective human-AI communication. Additionally, the findings suggest that prompt engineering can be used to personalize interactions, tailoring responses to individual users' needs and preferences.

One of the key implications of the study is that prompt engineering can be used to drive innovation and growth in various industries. The analysis reveals that prompt engineering can be applied to a wide range of domains and applications, making it a valuable tool for businesses and organizations. Furthermore, the study highlights the potential of prompt engineering to improve customer satisfaction and engagement, driving business growth and revenue.

The study also highlights the importance of considering the specific needs and requirements of different users and applications when designing prompts. The analysis reveals that prompt engineering can be tailored to specific needs and requirements, enabling more effective results and improving overall performance. Additionally, the findings suggest that prompt engineering can be used to improve the accessibility and usability of AI systems, making them more suitable for a wide range of users.

The results of the study also demonstrate the potential of prompt engineering to improve the efficiency and productivity of various industries. The analysis reveals that automated prompt generation and optimization can significantly reduce the time and effort required to generate high-quality AI outputs. Furthermore, the study highlights the potential of prompt engineering to improve the quality and accuracy of AI-generated content, reducing errors and improving overall performance.

Overall, the study provides valuable insights into the benefits and applications of prompt engineering, highlighting its potential to drive innovation, efficiency, and growth in various industries. The findings suggest that prompt engineering can be used to improve the accuracy, efficiency, and creativity of AI-generated content, and can be applied to a wide range of domains and applications. As AI technology continues to evolve, prompt engineering is likely to play an increasingly important role in unlocking its full potential.



VII. CONCLUSION

In conclusion, prompt engineering has emerged as a crucial aspect of artificial intelligence, enabling users to craft precise and effective prompts that elicit desired responses from language models. Through its various applications and benefits, prompt engineering has the potential to revolutionize the way we interact with AI systems, making them more efficient, creative, and user-friendly. By providing a comprehensive overview of the advantages and applications of prompt engineering, this study highlights its significance in driving innovation, efficiency, and growth in various industries.

The findings of this study demonstrate the effectiveness of prompt engineering in improving the accuracy, efficiency, and creativity of AI-generated content. By leveraging the capabilities of language models, prompt engineering can be used to generate innovative and creative ideas, products, and solutions. As AI technology continues to evolve, prompt engineering is likely to play an increasingly important role in unlocking its full potential and driving progress in various fields.

VIII. FUTURE WORK

In addition to the areas mentioned earlier, future research should also focus on exploring the potential applications of prompt engineering in creative fields such as art, music, and writing. By developing prompts that can generate novel and innovative ideas, researchers can unlock new possibilities for creative expression and artistic collaboration. Furthermore, the development of more advanced evaluation metrics can help assess the quality and effectiveness of AI-generated creative content.

Another important area of future research is the investigation of the potential risks and challenges associated with prompt engineering. As AI systems



become increasingly powerful and pervasive, it is essential to consider the potential consequences of generating and disseminating certain types of content. Researchers should explore strategies for mitigating potential risks and ensuring that prompt engineering is used responsibly and ethically.

The development of more advanced natural language processing techniques is also crucial for advancing the field of prompt engineering. By improving the ability of AI systems to understand and respond to complex user queries, researchers can create more sophisticated prompts that can elicit more accurate and relevant responses. Furthermore, the integration of multimodal input and output can enable more comprehensive and effective prompts that can be used in a wide range of applications.

Future research should also investigate the potential benefits and challenges of using prompt engineering in different cultural and linguistic contexts. By developing prompts that are tailored to the specific needs and requirements of different cultures and languages, researchers can ensure that prompt engineering is used in a way that is respectful and effective across diverse contexts.

The integration of prompt engineering with other AI technologies, such as computer vision and natural language processing, can also enable more comprehensive and effective prompts. By leveraging multiple forms of input and output, researchers can create prompts that can be used in a wide range of applications, from visual question answering to multimodal dialogue systems.

In conclusion, the future of prompt engineering holds much promise, with potential applications in a wide range of fields and industries. By pursuing these areas of research and development, we can unlock the full potential of prompt engineering and create more effective and user-friendly AI systems that can drive innovation and growth.

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