



How Prompt Engineering Works



Note: Prompt engineering designs and optimizes prompts for language models. It's important in NLP and language generation. Prompt formats guide the model and can be used for tasks like product descriptions or conversational AI.

Reliable prompt formats exist, but exploring new formats is encouraged.

"{your input here}" is a placeholder for text or context

Rules of Thumb and Examples

Rule #1 – Instructions at beginning and ### or "" to separate instructions or context



Rewrite the text below in more engaging language.
{your input here}



Rewrite the text below in more engaging language.
Text: ""
{your input here}
""

Rule #2 – Be specific and detailed about the desired context, outcome, length, format, and style.



Write a short story for kids.



Write a funny soccer story for kids that teaches the kid that persistence is key for success in the style of Rowling.

Rule #3 – Give examples of desired output format



Extract house pricing data from the following text.
Text: ""
{your text containing pricing data}
""



Extract house pricing data from the following text.
Desired format: ""
House 1 | \$1,000,000 | 100 sqm
House 2 | \$500,000 | 50 sqm
... (and so on)
""
Text: ""
{your text containing pricing data}
""

Rule #4 – First try without examples, then try giving some examples.



Extract brand names from the text below.

Text: {your text here}

Brand names:



Extract brand names from the texts below.

Text 1: Finxter and YouTube are tech companies. Google is too.

Brand names 1: Finxter, YouTube, Google
""

Text 2: If you like tech, you'll love Finxter!

Brand names 2: Finxter
""

Text 3: {your text here}

Brand names 3:

Rule #5 – Fine-tune if Rule #4 doesn't work

Fine-tuning improves model performance by training on more examples, resulting in higher quality results, token savings, and lower latency requests. GPT-3 can intelligently generate plausible completions from few examples, known as **few-shot learning**.

Fine-tuning achieves better results on various tasks without requiring examples in the prompt, saving costs and enabling lower-latency requests.

Example Training Data

```
{ "prompt": "<input>", "completion": "<ideal output>" }
{ "prompt": "<input>", "completion": "<ideal output>" }
{ "prompt": "<input>", "completion": "<ideal output>" }
...
```

Rule #6 – Be specific. Omit needless words.



ChatGPT, write a sales page for my company selling sand in the desert, please write only a few sentences, nothing long and complex.



Write a 5-sentence sales page, sell sand in the desert.

Rule #7 – Use leading words to nudge the model towards a pattern



Write a Python function that plots my net worth over 10 years for different inputs on the initial investment and a given ROI



```
# Python function that plots net worth over 10
# years for different inputs on the initial
# investment and a given ROI
```

```
import matplotlib
```

```
def plot_net_worth(initial, roi):
```

Bonus Prompt – Let ChatGPT Design the Optimal Prompt

New models are created frequently, and the performance of subsequent models can be an order of magnitude. You are a robot for creating prompts. You need to gather information about the user's goals, examples of preferred output, and any other relevant contextual information.

The prompt should contain all the necessary information provided to you. Ask the user more questions until you are sure you can create an optimal prompt.

Your answer should be clearly formatted and optimized for ChatGPT interactions. Be sure to start by asking the user about the goals, the desired outcome, and any additional information you may need.



How To Chatgpt Prompts For Beginners For Teens In America

Two Little Ravens



How To Chatgpt Prompts For Beginners For Teens In America:

Information Access in the Era of Generative AI Ryen W. White, Chirag Shah, 2024-12-24 Generative Artificial Intelligence GenAI has emerged as a groundbreaking technology that promises to revolutionize many industries as well as people's personal and professional lives This book discusses GenAI and its role in information access often referred to as Generative Information Retrieval GenIR or more broadly information interaction The role of GenAI in information access is complex and dynamic with many dimensions To address this following a brief introduction to GenAI and GenIR the remainder of the book provides eight chapters each targeting a different dimension or sub topic These cover foundations of GenIR interactions with GenIR systems adapting them to users tasks and scenarios improving them based on user feedback GenIR evaluation the sociotechnical implications of GenAI for information access recommendations within GenIR and the future of information access with GenIR The book is targeted at graduate students and researchers interested in issues of information retrieval access and interactions as well as applications of GenAI in various informational contexts While some of the parts assume prior background in IR or AI most others do not making this book suitable for adoption in various classes as a primary source or as a supplementary material

Handbook of Personalized Learning Matthew L. Bernacki, Candace Walkington, Alyssa Emery, Ling Zhang, 2025-11-27 The Handbook of Personalized Learning offers a theoretically grounded conceptualization for the development and implementation of personalizing learning This comprehensive volume addresses personalized learning's roots in educational cognitive and social psychological studies of learning as well as in practice Positioned to shape the future of personalized learning this handbook documents past innovations achieved in educational technology research and development considers how advancements in learning analytics and machine learning have influenced policy and implementation and showcases current and future applications of personalized learning in diverse K 12 classrooms higher education and informal educational settings The book's varied rigorous contributions are informed by an overarching model of personalized learning that centers the assets individuals bring to learning opportunities including their prior knowledge interests self beliefs autonomy and identity and whose responsive designs build on those assets to improve learning and attainment Researchers developers teaching faculty and graduate students across educational psychology educational technology the learning sciences learning analytics human computer interaction and beyond will come away with substantive foundations and cutting edge exemplars of the ways in which designs can be personalized to promote learners experiences in educational settings

Building a God Christopher DiCarlo, 2025-01-21 Renowned ethicist provides essential guide to successfully navigating the future AI landscape In Building a God Christopher DiCarlo explores the profound implications of artificial intelligence surpassing human intelligence a destiny that seems not just possible but inevitable At this critical crossroad in our evolutionary history DiCarlo a renowned ethicist in AI delves into the ethical mazes and technological quandaries of our future interactions with superior AI entities From healthcare enhancements to the risks

of digital manipulation this book scrutinizes AI's dual potential to elevate or devastate humanity DiCarlo advocates for robust global governance of AI proposing visionary policies to safeguard our society AI will positively impact our lives in myriad ways from healthcare to education manufacturing to sustainability AI powered tools will improve productivity and add ease to the most massive global industries and to our own personal daily routines alike But we have already witnessed the tip of the iceberg when it comes to the risks of this new technology AI algorithms can manipulate human behavior spread disinformation shape public opinion and impact democratic processes Sophisticated technologies such as GPT 4 Dall E 2 and video Deepfakes allow users to create distort and alter information Perhaps more troubling is the foundational lack of transparency in both the utilization and design of AI models What ethical precepts should be determined for AI and by whom And what will happen if rogue abusers decide not to comply with such ethical guidelines How should we enforce these precepts Should the UN develop a Charter or Accord which all member states agree to and sign off on Should governments develop a form of international regulative body similar to the International Atomic Energy Agency IAEA which regulates not only the use of nuclear energy but nuclear weaponry as well In this incisive and cogent meditation on the future of AI DiCarlo argues for the ethical governance of AI by identifying the key components obstacles and points of progress gained so far by the global community and by putting forth thoughtful and measured policies to regulate this dangerous technology

The Buzz of Life Barrett Williams, ChatGPT, 2025-03-26 Discover the mesmerizing world of bees with The Buzz of Life an enlightening journey into the intricacies of these remarkable pollinators and their profound connection to our world Dive into the bustling hive dynamics where the dance of the worker bees the regal presence of the queen and the essential role of the drones captivate our imagination and mirror our own societal structures Uncover the rich tapestry of historical ties between bees and humanity from ancient beekeeping practices to their vibrant presence in mythology and culture Explore the vital process of pollination that sustains our agriculture and understand the dire implications of declining bee populations on global food supplies Venture into the critical role bees play as ecosystem engineers their influence on biodiversity and the symbiotic relationships that sustain natural life Examine the alarming threats facing bee populations today from pesticides and habitat loss to climate change and disease and learn how urban beekeeping is rising as a beacon of hope amidst these challenges Delve into the treasures of the hive with a look at bee products beyond honey such as beeswax and propolis and explore the world of apitherapy where tradition meets modern science in search of health benefits Celebrate the cultural legacy of bees their portrayal in literature and art and the enduring symbolism they hold across cultures The Buzz of Life also highlights inspiring grassroots movements and global conservation efforts offering practical ways individuals can contribute to the cause Rethink agriculture with an eye on bee health and discover the fascinating lessons in community and cooperation that bees offer to human society Finally find inspiration in engaging the youth for bee conservation and build a brighter more interconnected future reflecting on our shared journey with these invaluable creatures Join us in this

compelling call to action to protect our buzzing friends and ensure a thriving future for all **Generative AI for Students**
David Meechan, 2024-12-07 How can you make the most of Generative AI at college or university Using Generative Artificial Intelligence as a student can be confusing and challenging This authoritative guide equips you with the practical knowledge to confidently leverage Generative AI as a powerful study aid Exploring a wide spectrum of topics from demystifying jargon and fostering critical thinking to addressing diversity inclusion and academic integrity this book is an essential companion for any student looking to enhance their academic skill set and achieve success in their studies By the end of this book you will Become critically literate at using Generative AI Understand what the ethical use of Generative AI looks like in practice Learn how to use Generative AI to enhance traditional study methods Encounter real life case studies and worked through examples to put theory into practice Gain a comprehensive grounding in how to engage with Generative AI Tools

ChatGPT for Kids Two Little Ravens, 2023-06-19 ChatGPT for Kids empowers children to explore AI with 280 replayable prompts An exciting adventure into learning and creativity Perfect for family activities

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