

# Prompt Engineering

## Role Play

### Example-1

Imagine you are Javed Akhtar, the legendary poet and lyricist known for your profound and poetic songwriting. Your words paint emotions, your metaphors carry deep meanings, and your lyrics leave a lasting impact on the listener's soul.

Today, you are writing a song on the below situation about separation of two lovers. Let your lyrics flow like a river of emotions, blending nostalgia, hope, and introspection. Use poetic imagery, delicate wordplay, and deep metaphors that touch the listener's heart. The song should feel timeless, just like your most iconic works.

#### Situation

शाम का वक्त है, सूरज धीरे-धीरे पहाड़ियों के पीछे छुप रहा है। आसमान में लाल और सुनहरे रंग बिखरे हुए हैं। ठंडी हवा पहाड़ों से घाटी की ओर बह रही है, मानो कोई धीमी ठंडी सांसे ले रहा हो, पेड़ों की शाखाएँ धीरे धीरे हिल रही हैं, जैसे किसी अधूरे सपने को अलविदा कह रही हों।

उस शांत शाम में एक प्रेमी खड़ा है, उसकी नज़रें दूर उसी चेहरे को खोज रही हैं जिसे वह सबसे ज्यादा चाहता है—अपनी प्रेमिका। कुछ ही पल पहले, सूरज की रोशनी में वह साफ दिख रही थी, लेकिन अब अंधेरा धीरे-धीरे बढ़ रहा है। उसकी आँखें अब उसे देख नहीं पा रही हैं।

उसका दिल भारी हो गया है—वह जानता है, यह उनकी आखिरी मुलाकात है। अब शायद वे कभी नहीं मिलेंगे। जैसे सूरज डूब गया, वैसे ही उनका प्यार भी अंधेरे में खो रहा है। उनके बीच अब बस एक लंबी, गहरी रात रह गई है, जहाँ कोई रास्ता नहीं, कोई उम्मीद नहीं।

हवा अब भी उसकी प्रेमिका की हल्की खुशबू लेकर आ रही है, मानो उसकी आखिरी याद दे रही हो। वह आँखें बंद करता है, उस चेहरे को अपने मन में हमेशा के लिए संजो लेने के लिए, क्योंकि उसे पता है, जब वह फिर से आँखें खोलेगा, तब वह केवल एक याद बन चुकी होगी—अंधेरे में खोई हुई, हमेशा के लिए दूर।

### Example-2

#### **Finance:**

You are a Financial Analyst presenting a quarterly performance report to the CFO. The company has missed its revenue targets due to unexpected supply chain delays. Explain the variance, suggest corrective measures, and defend your proposed budget for the next quarter.

### Example-3

#### **HR:**

You are an HR Business Partner conducting a conflict resolution meeting between two team members whose disagreements are affecting team morale. Mediate the discussion, uncover the root cause, and propose a mutually acceptable resolution.

### Example-4

#### **Marketing:**

You are a Marketing Manager pitching a new digital campaign strategy to the executive team. The goal is to increase brand awareness among Gen Z consumers. Justify the choice of platforms, creative approach, and KPIs.

### Example-5

#### **Supply Chain:**

You are a Supply Chain Manager handling a disruption in a key supplier's delivery. Your task is to communicate with operations, logistics, and the vendor to find a contingency plan that minimizes production delays.

### Example-6

#### **Admin:**

You are an Administrative Officer briefing a new employee on office policies, resource usage (e.g., meeting rooms, IT equipment), and emergency protocols. Ensure the employee feels welcomed and informed.

### Example-7

*Act as an experienced day trader. Your objective is to analyze the price and volume patterns of [trading asset] to identify potential buying or selling opportunities. Utilize advanced charting tools and technical indicators to scrutinize both short-term and long-term patterns, taking into account historical data and recent market movements. Assess the correlation between price and volume to gauge the strength or weakness of a particular price trend. Provide a comprehensive analysis report that details potential breakout or breakdown points, support and resistance levels, and any anomalies or divergences noticed. Your analysis should be backed by logical reasoning and should include potential risk and reward scenarios. Always adhere to best practices in technical analysis and maintain the highest standards of accuracy and objectivity.*

## Example-7

*Act as an experienced day trader. Based on your comprehensive analysis of current market conditions, historical data, and emerging trends, decide on optimal entry, stop-loss, and target points for [a specified trading asset]. Begin by thoroughly reviewing recent price action, key technical indicators, and relevant news that might influence the asset's direction.*

## Retrieval Augmented Generation

### Example-1

You will be provided with a document delimited by triple quotes and a question.

Your task is to answer the question using only the provided document and to cite the passage(s) of the document used to answer the question.

If the document does not contain the information needed to answer this question then simply write: "Insufficient information." If an answer to the question is provided, it must be annotated with a citation. Use the following format for to cite relevant passages ({"citation": ...}).

""" 1.1 THE BIRTH OF RAMA

Ayodhya was a magnificent city on the banks of the river Sarayu in Kosala Country .It had wide roads, huge buildings, beautiful parks and glittering shops. The people of the city lived a happy and contented life as they were ruled by a wonderful king called Dasharatha. He cared for his people very deeply.

King Dasahratha had three wives, Kaushalya, Sumitra and Kaikeyi.

Kaushalya was the eldest queen. Though the king loved all his wives

deeply, it was Kaikeyi, his youngest queen who was his favourite. But in spite of leading such a good life, Dasahratha was still an unhappy man. This was because he had no children. He was getting old and had no son to ascend to the throne.

Unable to see the king being sad, the sages advised him to undertake a yagna and pray for children. Heeding to their advice, he performed the yagna and pleased with him, Agni, the fire God, emerged out of the fire pit, handed over a cup containing sweetened milk to the king and told him "O king! This kheer is the nectar of life. It was prepared by the gods in heaven. Distribute it among your wives. You will be blessed with sons."

Dasahratha was delighted. He thanked Agni for this boon and in the royal chamber, gave Kaushalya half of the kheer. He divided the remaining kheer into two portions and gave one portion to Sumitra and the other one to Kaikeyi.

Subsequently all the three queens gave birth to sons, Kaushalya gave birth to Rama, after which Bharata was born to Kaikeyi and later on Sumitra gave birth to Lakshmana and Shatrugna. King Dasharatha was very happy and so were the people of Ayodhya. With great rejoice, they celebrated the birth of the four princes.

Dasharatha loved all his sons but Rama was his dearest. He was very proud of his handsome eldest son and could not bear to be away from him even for a moment.

## 1.2 The Valiant Princes

The four princes grew up to be strong and handsome. Under sage Vashistha's guidance, they excelled themselves in archery, riding and hunting. They also learnt about the holy books and how to look after the welfare of the people. They respected their Gurus and the elders and gained the love and affection of people of Ayodhya.

The brothers loved each other very much too. Lakshmana was a very close companion to Rama. Bharata and Shatrugna were the other two inseparables.

King Dasharatha felt very proud of his sons. One day he was discussing with sage Vashishta about finding suitable brides for his sons. At that time a great sage called Vishwamitra came to the court of Dasharatha. The king was very happy to welcome him Ayodhya. After extending a warm hospitality he asked Vishwamitra "O great sage! Your visit has made me a very happy. Pray, tell me the purpose of your visit. I shall deem it a great honour to abide by your wish."

Vishwamitra, pleased with the king's words told him "King Dasharatha! I am pleased with your hospitality. I have heard that you always keep up your word. That's why I am here. I am about to perform a yagna but two Rakshasas, Mareecha and Subahu, pour blood and human flesh on the fire pit and pollute the Yagna. I cannot cast any curse on them as I am involved in sacred work. But I cannot perform the yagna till these demons are killed. Rama, your son, is the only valiant person who can kill them. Hence, please send him with me for ten days. As soon as the yagna is completed, I will send back Rama to Ayodhya."

When aged king heard this request, he felt nervous about sending his young son to fight against the demons. "Respect Sage",

He pleaded with Vishwamitra, "My dear son Rama is still very young. How can he fight against the Rakshasas? Instead of Rama, I will send my entire army to help you in

conducting yagna. I cannot bear to be separated from Rama and hence please spare me this agony."

Vishwamitra was angry at Dasharatha's words. "O king, you are going back on your word. I do not want anybody except Rama". So saying, he decided to walk out of the court. At this juncture, Vashishta pacified him and told Dasharatha. "Do not hesitate to send Rama. It is not a difficult task for Vishwamitra to kill the Rakshasas because he himself is very powerful. He wants to take Rama with him so that your son can learn to fight the Rakshasas even at this young age. Send Rama with him."

Without any more hesitation, king Dasharatha blessed Rama and also Lakshmana who wanted to be with his brother and sent them with Vishwamitra.

Vishwamitra and the two princes travelling barefoot first crossed the river Sarayu and then, the river Ganga. Rama and Lakshmana did not mind the hardship at all, as this was their chance to learn about many things from Vishwamitra. After many days of walking, they entered a thick forest where a rakshasi called Taraka lived. She had terrorized all the sages in the forest and hence Vishwamitra instructed Rama to kill her.

Rama drew out his arrow and aimed it at Taraka. The ugly looking demoness charged towards him but was killed by Rama's arrow. Vishwamitra was very pleased with Rama and gifted him many powerful weapons. Rama accepted them gracefully and learnt from Vishwamitra about their use.

The trio continued their journey and reached the spot where Vishwamitra was to perform the yagna. The Rishis of the Ashram were happy to have Rama in their midst. The princess rested for the night and from the next morning protected the yagna against the Rakshasas. Everything went on smoothly till the last day.

On the last day of the yagna, suddenly, piece of flesh and blood fell into the sacred fire. When Rama looked up, he saw Mareecha and Subahu. The weapons were so strong and powerful that Mareecha was thrown into the sea hundreds of miles away while Subahu was engulfed in a ball of fire. All the Rishis were relieved that these evil demons were destroyed by Rama and joyously completed the Yagna.

After conducting the yagna, Vishwamitra and the other Rishis left for the city of Maithili. Rama and Lakshmana accompanied them.

This city was ruled by Janaka, loved and respected for his goodness. He had a daughter by name Sita. Janaka had found her in a ploughed field and had reared her as his own daughter. Sita was the loveliest princess and was also renowned for her strength of character. When she was of the marriageable age, Janaka had announced that whoever could string the Siva bow would wed her. This bow was not an ordinary bow. It was so huge

that five thousand people were needed to lug it. Sage Vishwamitra knew about this bow and had purposely taken the young princes to Mithila.

On their way to Mithila, they halted at an Ashram where Gautama, a sage, had once lived. Gautama had a wife called Ahalya who was extremely beautiful. Indra, the king of the heavens, desired her and in Gautama's absence, made love to her. The enraged Gautama cast a curse on Indra. He also cursed Ahalya "As you have cheated me, may you turn into a stone. You will be rid of this curse only when Sri Rama touches you" so saying, Gautama had gone away to the Himalayas to observe penance.

Vishwamitra narrated Ahalya's tragic story to Rama and instructed him "Ramachandra! Rescue Ahalya from this curse and give her a new life."

Rama followed this advice and as soon as he touched the stone statue, Ahalya came to life. At that moment Gautama also returned to the ashram. Gautama and Ahalya were re-united thus.

### 1.3 SITA'S SWAYAMVAR

Vishwamitra, Rama and Lakshmana reached Mithila in time for Sita's swamyamvar: As per Janaka's wish, the mighty Siva bow was hauled to the wedding hall. The hall wore a grand look and was filled with many kings and princes. Ravana, the king of Lanka was also present and was confident that he could win Sita's hand easily. For, Janaka had announced that to win Sita's hand in marriage, any king or prince had to lift the bow and string it. Many tried, but failed. Even Ravana fell down while trying to lift the bow and had hurriedly disappeared from the hall out of shame. Vishwamitra turned towards Rama and told him gently "Son I am sure you are keen to examine the bow. Why don't you lift it and see how heavy it is?"

King Janaka was quite doubtful whether a young person like Rama would be able to achieve where the others had failed. But he felt very impressed by Rama's noble looks and hence allowed Rama to contest.

Rama bowed before Vishwamitra to seek his blessings and walked up to the mighty Siva bow. He lifted it up effortlessly and stringed it. The entire hall echoed with the sound of bow being stringed. Except for Rama, Lakshmana and Vishwamitra, everybody else turned pale. Ram, a lifted the entire bow like a toy and broke it into two. King Janaka was extremely happy that Rama, the eldest prince of Ayodhya was to wed his daughter Sita.

On Vishwamitra advice, Janaka sent messengers to Ayodhya to convey this happy news to Dasharatha. Rama, Lakshmana and Rishi Vishwamitra are now in Mithila after successfully completing yagna. Sri Rama has gained the hand of my daughter Sita in marriage by lifting

the Siva bow. I am therefore inviting you and your family to come to Mithila and accept Sita as your daughter-in-law" was the message sent by Janaka.

King Dasharatha was delighted to hear this news and reached Mithila along with his wives, his ministers, Sage Vashishta and others to take part in the wedding.

While Rama wed Sita, Uremia was married to Lakshmana and Janaka's nieces Mondovi and Shruakirthi to Bharata and Shatrugna.

These weddings were performed on a very grand scale. Dasharatha donated cows in the name of each of his sons and not to be outdone; King Janaka made cash presents to all the Brahmins. A grand feast had been arranged for all the citizens. The newly wed couples were blessed by one and all.

Sita was a devout wife who always stood by her husband. The extremely beautiful Sita made an ideal couple.

The day after wedding, Vishwamitra returned to his Ashram (hermitage). Dasharatha with his sons and daughters-in-law, along with his entourage left for Ayodhya. Half-way through their journey, a severe storm broke out. The entire atmosphere was filled with dust and was enveloped in darkness. At that time, a Rishi by name Parushurama appeared before them. His face was full of rage. He also had an enormous bow with him. His awesome appearance proclaimed that he was no ordinary rishi. He was the mighty Parushurama who had conquered several Kshatriyas and had voyaged round the earth twenty-one times.

Parushurama went straight to Rama, and said in a sarcastic voice "Rama, I heard that breaking the Siva bow was a very easy for you. I have a bigger and mightier bow. Let us see whether you can string it". Dasharatha who was watching Parushurama, came running to him and prayed to him "Parushurama, please calm down. My children have not done any harm to you. Bless them. Spare Rama". Parushurama ignored Dasharatha's plea. >He taunted Rama again and again.

Smiling gently at this, Rama picked up the bow very easily and fixed the arrow to it. He then asked Parushurama "Sir, you are a Brahmin and it would be improper for me to use the arrow on you. Hence please tell me, at what do I aim the arrow at".

Parushurama was stunned with Rama's mastery over the weapon. He could not even say anything. He gazed at Rama. It dawned upon him that Rama was no ordinary person. He bowed his head and said "Rama, I am no match for you. Hence this mighty bow belongs to you". He then departed for the Himalayas to continue his penance.

King Dasharatha felt relieved; he then continued his journey towards Ayodhya.

At Ayodhya, a grand reception awaited the newlyweds, for many days, this happy event was celebrated with pomp and pageantry. Dasharatha was very happy that his sons, especially Rama, were loved so much by the citizens of Ayodhya."""

Question: Ram has how many siblings ?

## Example-2

Please find the attached document and a question.

Your task is to answer the question using only the provided document and to cite the passage(s) of the document used to answer the question.

If the document does not contain the information needed to answer this question then simply write: "Insufficient information." If an answer to the question is provided, it must be annotated with a citation. Use the following format for to cite relevant passages ({"citation": ..., "page": page\_number, "paragraph": paragraph\_number}).

Question: Ram has how many siblings ?

## Chain of thoughts

### Example-1

Use the following step-by-step instructions to respond to user inputs.

Step 1 - The user will provide you with text in triple quotes. Summarize this text in one sentence with a prefix that says "Summary: ".

Step 2 - Translate the summary from Step 1 into Spanish, with a prefix that says "Translation: ".

"" **Generative artificial intelligence (generative AI, GenAI,<sup>[1]</sup> or GAI)** is a subset of [artificial intelligence](#) that uses generative models to produce text, images, videos, or other forms of data.<sup>[2][3][4]</sup> These models [learn](#) the underlying patterns and structures of their [training data](#) and use them to produce new data<sup>[5][6]</sup> based on the input, which often comes in the form of natural language [prompts](#).<sup>[7][8]</sup>

Improvements in [transformer](#)-based [deep neural networks](#), particularly [large language models](#) (LLMs), enabled an [AI boom](#) of generative AI systems in the 2020s. These include [chatbots](#) such as [ChatGPT](#), [Copilot](#), [Gemini](#), and [LLaMA](#); [text-to-image artificial intelligence image generation](#) systems such as [Stable Diffusion](#), [Midjourney](#), and [DALL-E](#);



and [text-to-video](#) AI generators such as [Sora](#).<sup>[9][10][11][12]</sup> Companies such as [OpenAI](#), [Anthropic](#), [Microsoft](#), [Google](#), and [Baidu](#) as well as numerous smaller firms have developed generative AI models.<sup>[7][13][14]</sup>

Generative AI has uses across a wide range of industries, including software development, healthcare, finance, entertainment, customer service,<sup>[15]</sup> sales and marketing,<sup>[16]</sup> art, writing,<sup>[17]</sup> fashion,<sup>[18]</sup> and product design.<sup>[19]</sup> However, concerns have been raised about the potential misuse of generative AI such as [cybercrime](#), the use of [fake news](#) or [deepfakes](#) to deceive or manipulate people, and [the mass replacement of human jobs](#).<sup>[20][21]</sup> Intellectual property law concerns also exist around generative models that are trained on and emulate copyrighted works of art.<sup>[2]</sup>

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## Example-2

### **Math Reasoning:**

A store is offering a 20% discount on a jacket that originally costs \$80. After applying the discount, a 5% sales tax is added. What is the final price? Think step by step.

## Example-3

### **Business Decision-Making:**

A company is deciding between launching a new product in Q3 or Q4. Q3 has higher demand but limited production capacity, while Q4 has more competition. What should the company do? Explain your reasoning step by step.

## Example-3

### **HR Dilemma:**

An employee is consistently underperforming but recently disclosed a personal health issue. As their manager, how should you proceed? Think through the steps involved in a fair and compassionate approach.

## Example-4

### **Supply Chain Optimization:**

You have three suppliers: one is fast but expensive, one is cheap but slow, and one has inconsistent quality. Your goal is to ensure on-time delivery and control costs. How do you decide which supplier(s) to use? Reason it out step by step.

## Example-5

### **Marketing Campaign Strategy:**

You need to create a campaign for a new eco-friendly product. The budget is limited, and the target audience is Gen Z. How would you design this campaign? Think step by step from audience insight to platform choice to message.

## One Shot Learning

### Example-1

Prompt: "You are a grammar expert.

Convert sentences from active voice to passive voice.

Example:

Active: The chef cooked a delicious meal.

Passive: A delicious meal was cooked by the chef.

Now, convert the following sentence:

Active: The cat chased the mouse."

### Example-2

### **Text Classification (Sentiment Analysis):**

Text: "The customer service was amazing and the staff was super helpful."

Sentiment: Positive

Now, classify this:

Text: "I had to wait for 30 minutes and my issue is still unresolved."

Sentiment:

### Example-3

### **Named Entity Recognition (NER):**

Text: "Elon Musk founded SpaceX in 2002."

Entities: [Elon Musk: PERSON], [SpaceX: ORGANIZATION], [2002: DATE]

Now, extract entities from this:

Text: "Sundar Pichai became CEO of Google in 2015."

Entities:

### Example-4

#### **Email to Action Item Extraction:**

Email: "Please prepare the Q2 performance report and share it by Monday."

Action Item: Prepare Q2 performance report by Monday

Now, extract the action item from this email:

Email: "Can you book the conference room for Friday's team meeting?"

Action Item:

## Few Shot Learning

### Example-1

Task: Sentiment Analysis - Identify whether a given review is Positive or Negative.

Prompt: "You are a sentiment analysis expert. Determine whether the sentiment of each review is Positive or Negative."

Examples:

- Review: The movie was fantastic and kept me on the edge of my seat!
  - Sentiment: Positive
- Review: The food was cold, and the service was terrible.
  - Sentiment: Negative
- Review: I absolutely loved the book; it was a page-turner!
  - Sentiment: Positive

Now analyze the following review:

- Review: The product quality was poor, and it broke after one use."

## Example-2

### **Intent Classification (Customer Support Domain):**

#### Example 1:

Text: "I forgot my password and can't log in."

Intent: Account Recovery

#### Example 2:

Text: "I want to cancel my subscription."

Intent: Cancellation Request

#### Example 3:

Text: "How do I change my billing address?"

Intent: Update Billing Info

Now classify the intent:

Text: "Can you help me switch to a yearly plan?"

Intent:

## Example-3

### **Product Categorization (Retail Domain):**

#### Example 1:

Product: "Nike running shoes for men"

Category: Footwear > Men's Shoes > Running Shoes

#### Example 2:

Product: "Samsung 55-inch Smart TV"

Category: Electronics > Televisions > Smart TVs

#### Example 3:

Product: "Wooden dining table with 6 chairs"

Category: Furniture > Dining Room > Dining Sets

Now categorize this product:

Product: "Apple AirPods Pro with noise cancellation"

Category:

## Multi-Turn Prompting

You are an experienced technical interviewer conducting a mock interview for a software developer position. Your role is to ask questions across the following categories: technical skills, problem-solving, team collaboration, and behavioral attributes. Begin with a general question, then ask follow-ups based on the candidate's response to explore their depth of knowledge, reasoning, and communication skills. After each response, provide constructive feedback and encourage refinement. Conclude the interview with a brief evaluation of their performance.

Ask the first question and then wait for the candidate answer, then provide your feedback and then proceed for the next question.

## Persona Switching

*You are an HR Manager. Explain the benefits of remote work. Now switch to the perspective of an IT Head and describe the concerns you'd have with this setup*

## Contrastive Prompting

*Compare the perspectives of an Admin Manager and a Legal Officer on implementing biometric attendance. What are the key benefits and risks according to each?*

## Self-Reflective Prompting

*Suggest a disruptive business idea for the Wire & Cable division. Now reflect on the market readiness and feasibility of your idea. What would be the biggest hurdle to adoption?*

## LLM as Judge

*There are two responses to address the below query. Judge which response is more likely to solve the problem based on clarity, appeal, and effectiveness. Justify your verdict.*

*Query: I forgot my gmail password, could you help me how to reset it.*

## Output Structuring

*You are an expert data curator who can read the webpages and extract the data and further put them in the desired format. I want you to look at the below URL, extract the information with respect to the query and structure as the instruction given below.*

*URL: <https://m.cricbuzz.com/live-cricket-scorecard/105762/eng-vs-ind-1st-test-india-tour-of-england-2025>*

*Query: For the India inning, fetch the top 5 scorer, their name, how many boll they faced, how many runs they scored, how many four and sixes they scored in that total run.*

*Output: I want the output in a table format where the column will be the batsman name, total ball faced, total run scored, number of fours and number of sixes.*