



## Personal Profile



Data  
Scientist

MENTOR



## Work Experience

TIGER  
ANALYTICS

logitech

salesforce



## Achievements



## Mentorship Experience



IMARTICUS

inceptez

knowledgehut  
upGrad

Great  
Learning

the  
knowledge  
academy



## Other Contributions

GitHub

stack  
overflow



## Personal Profile



Data  
Scientist

MENTOR



## Achievements



## Education



INDIAN INSTITUTE OF  
MANAGEMENT LUCKNOW

upGrad  
**INSOFE**  
INSPIRE • EDUCATE • TRANSFORM



## Contact Info

# EMERGING GLOBAL LEADER IN GENERATIVE AI - Times Power Icon



# Outstanding Leadership Award - Internet 2.0 - Dubai



THE  
**2.0**  
CONFERENCES



...a, Aaron England  
d Noordeen Alaudeen

# Packt

[www.packt.com](http://www.packt.com)



## Mohamed Noordeen Alaudeen

Data Scientist Leader | Generative AI | LLM Engineer | Ex-Salesforce |  
Ex-Logitech | Author | Mentor | Corporate Trainer



Indian Institute of  
Management, Lucknow

 Top Data Science Voice

Dubai, United Arab Emirates · [Contact info](#)

Recognition 

**27,785 followers** · 500+ connections

[Open to](#)

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# Reviews and Recommendations



Satheesh Kumar · 1st

Senior Data Architect @ Collabera | Cloud | AWS | Azure | Data Analyst | SQL | Big Data | Streaming | Spark | Hive | NoSQL | Kafka | Scala | Speaker | Blogger

April 17, 2020, Satheesh worked with Mohamed Noordeen but they were at different companies

All LinkedIn members

On

Noorudeen is a god-gifted instructor. He has many years of experience in data science, knows a variety of creative methods, and ensures what you need to learn. His calming personality makes you feel completely comfortable, even when you are making mistakes. He is always encouraging and positive. He is the best data science instructor I have ever met from a dozen of instructors over the years with different geographies.

Sometimes, he pushes people to drive the path to achieve desire results. The way he handles shows the quality of managing people in unique and convinced way.

I have come across many profiles in data science industry and got a chance to interact with them globally. Without doubt, Noorudeen is one of the biggest South Indian profile with lots of talent, continuous technology updating, also helping people personally during emergency period.

I can proudly say Noor is the best in technology, humanity, and cares for a person to involve in subject. None of them have all these 3 qualities in the market. He is man who jumped directly from heaven to earth.

If you want to improve your data science innovation and make quality decision to reach higher business results quickly, He is the right person to approach. You shall see the magic. He is not only focusing on technology to achieve the results but also drives how solution suits and help people in business.

I am sure and wish him, will reach greater heights in future days.



rajguru ramalingam · 1st

Data Scientist

August 30, 2022, Mohamed Noordeen was senior to rajguru but didn't manage rajguru directly

All LinkedIn members



"Noordeen - The Best Mentor"

Noordeen is an expert in solving Business problems using Data Science skills. He is also one of the greatest Mentor/Trainer in his expertise area. I was mentored by him in Data science, using which I got multiple offers. His way of teaching involves easy understanding using examples, layman language and best practices. Also like his thinking on continuous learning and updating himself with recent technologies.



Sridhar Pappu · 1st

President: uGDX Institute of Technology (Formerly INSOFE) | Professor at uGDXIT | Adjunct Faculty at Case Western Reserve University

May 18, 2017, Sridhar was Mohamed Noordeen's teacher

All LinkedIn members



On

Mohamed Noordeen has all the right qualities to do well personally and professionally. His dedication to learning Data Science is amply visible from the fact that he traveled every weekend from Chennai to Bengaluru for a duration of nearly 6 months to do our rigorous certificate program. In a class of nearly 60 professionals, he did very well and even secured a scholarship that only a few in the class get. Even after getting the scholarship, he approached our Data Scientists to learn what mistakes he had made.

In addition to grasping well the concepts of various Statistical, Machine Learning and Big Data techniques, he has displayed excellent coding skills as well. His approach to a problem is also very systematic and meticulous.

In addition, he is a very polite and soft-spoken person and will gel well in any team. I am sure Mohamed Noordeen will be an asset to any Data Science team, or any team, in general.



L S Kiran CH · 1st

Engineering Lead | Data Solution Architect | Big Data Engineer | Enterprise Data Integrations | DevOps-Cl/CD | Technology Consulting | Palantir Foundry | Cloud - AWS

December 21, 2022, L S Kiran worked with Mohamed Noordeen but they were at different companies



I got opportunity to learn Data Science from Noorudeen. He helped me become advanced level in ML, DL, NLP and related ecosystem components. Starting with solving simple problem statement to complex one by doing the Hackathons in public forums like Analytics Vidhya and Kaggle and while see our rank in those portals, we got confidence which further encouraged me to do much more.

On

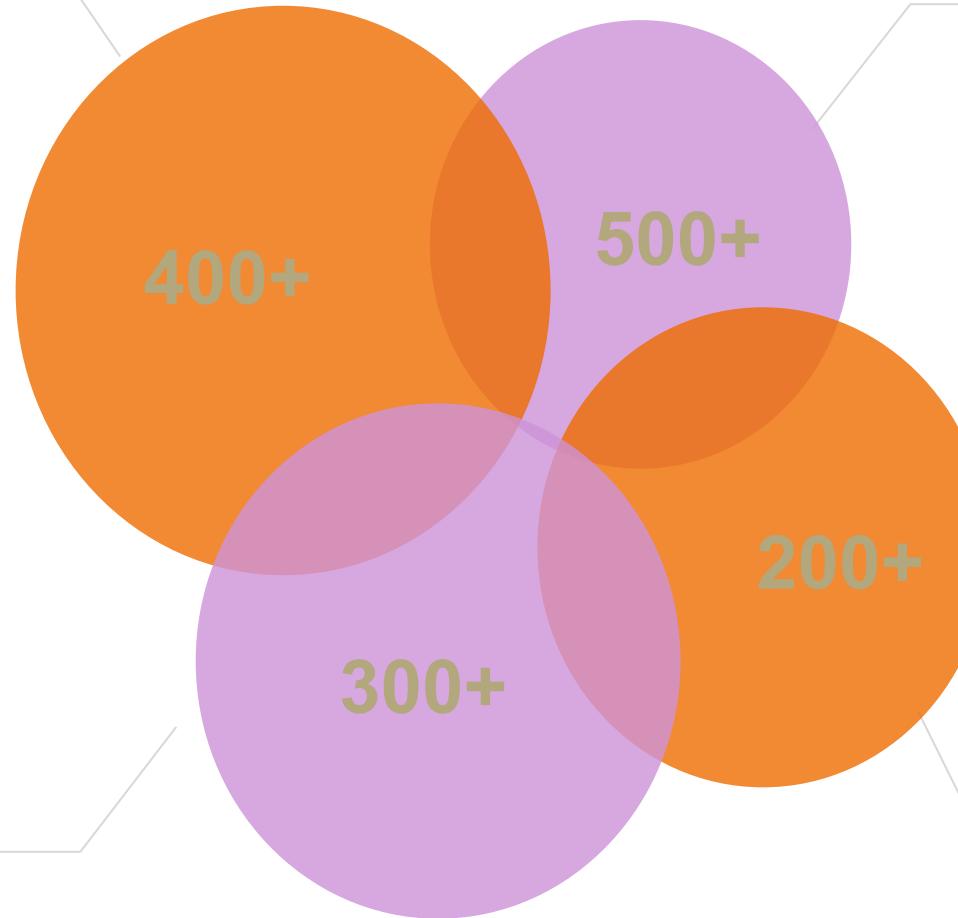
Tons of Thanks to Noorudeen for such dedication in educating us and make us a professionals in the field of Data science.

I can say that, It is almost impossible to get this type of learnings anywhere else due his unique nature of instructiveness while teaching along with doubt clearing then and there during session and I almost felt that we are actually in physical class room than virtual live session.

Truly speaking, When we have great knowledge, there are many ways to earn money, but Noorudeen chosen the field of education to enhance many people's lives with career growth. This motive really great and very kind gesture towards the society we are in. Thanks a lot and keep doing.

# Mentored above 2000+ Data Science Aspirants

Offline Course  
(7 Batches)

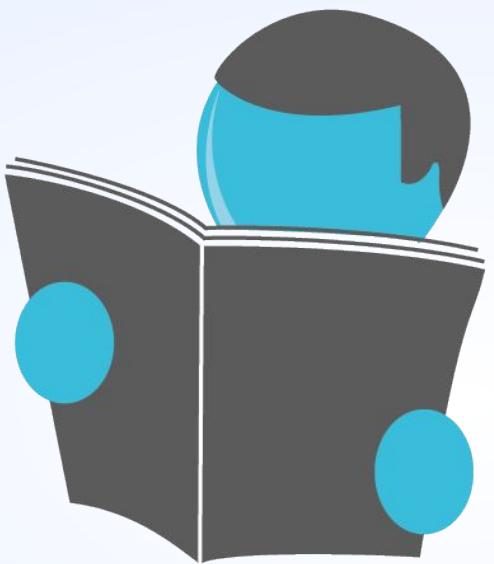


Workshop  
(10+ Batches)

Online Course  
(6 Batches)

Corporate and  
College Training  
(3 Organisations  
and 2 Colleges)

# Overview



LLM

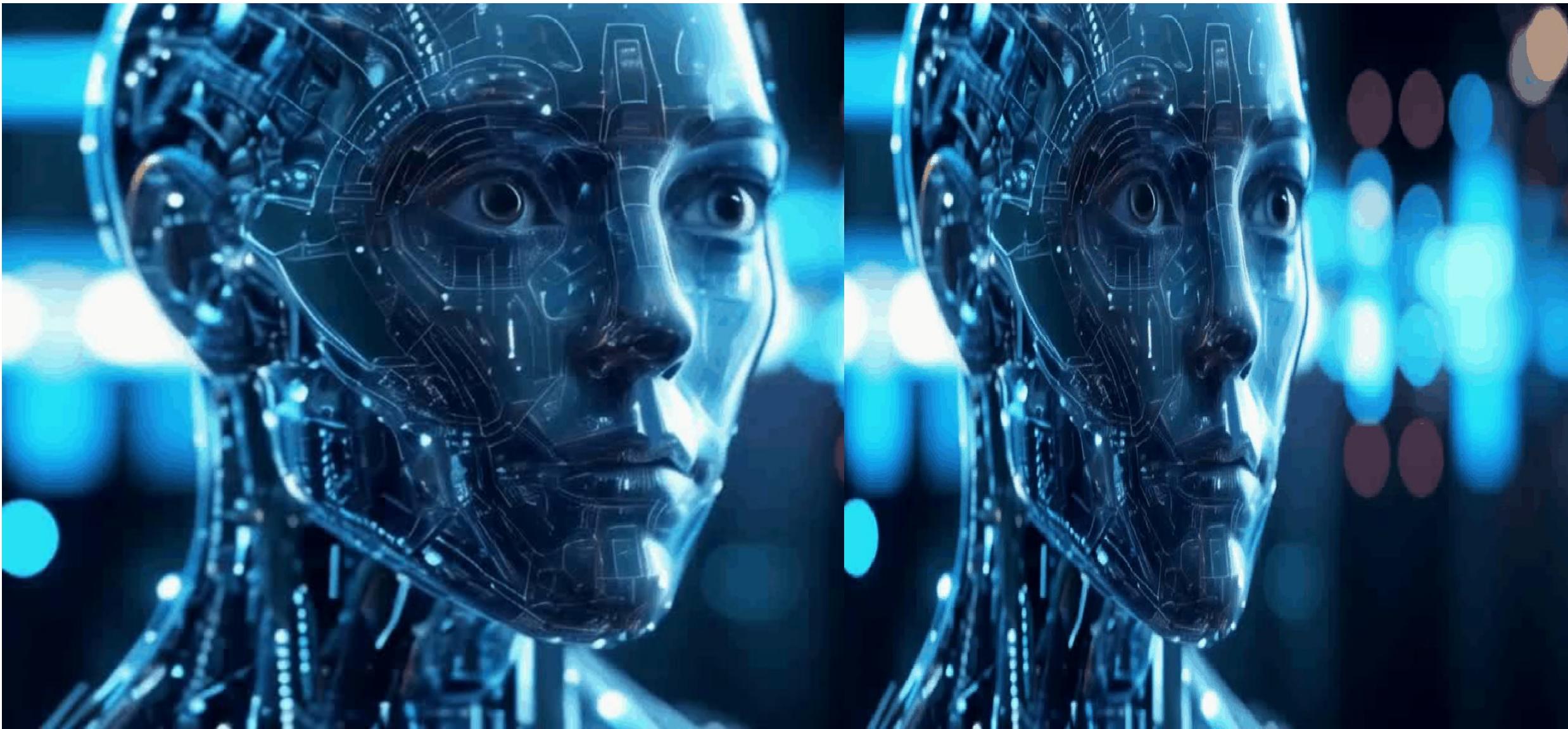


Prompt engineering basics



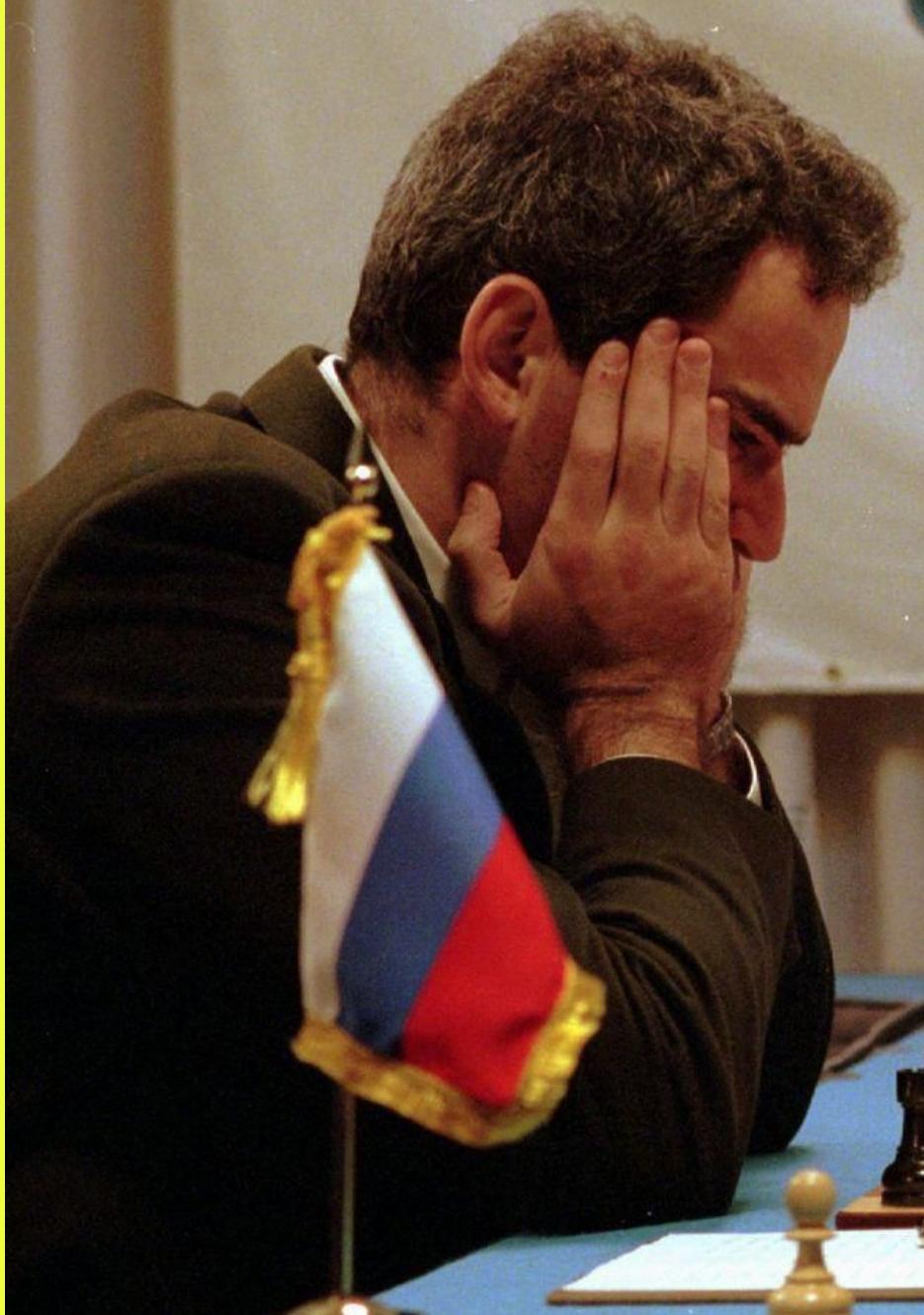
Prompts for business use cases

# What is Artificial Intelligence?



1977 - Deep Blue

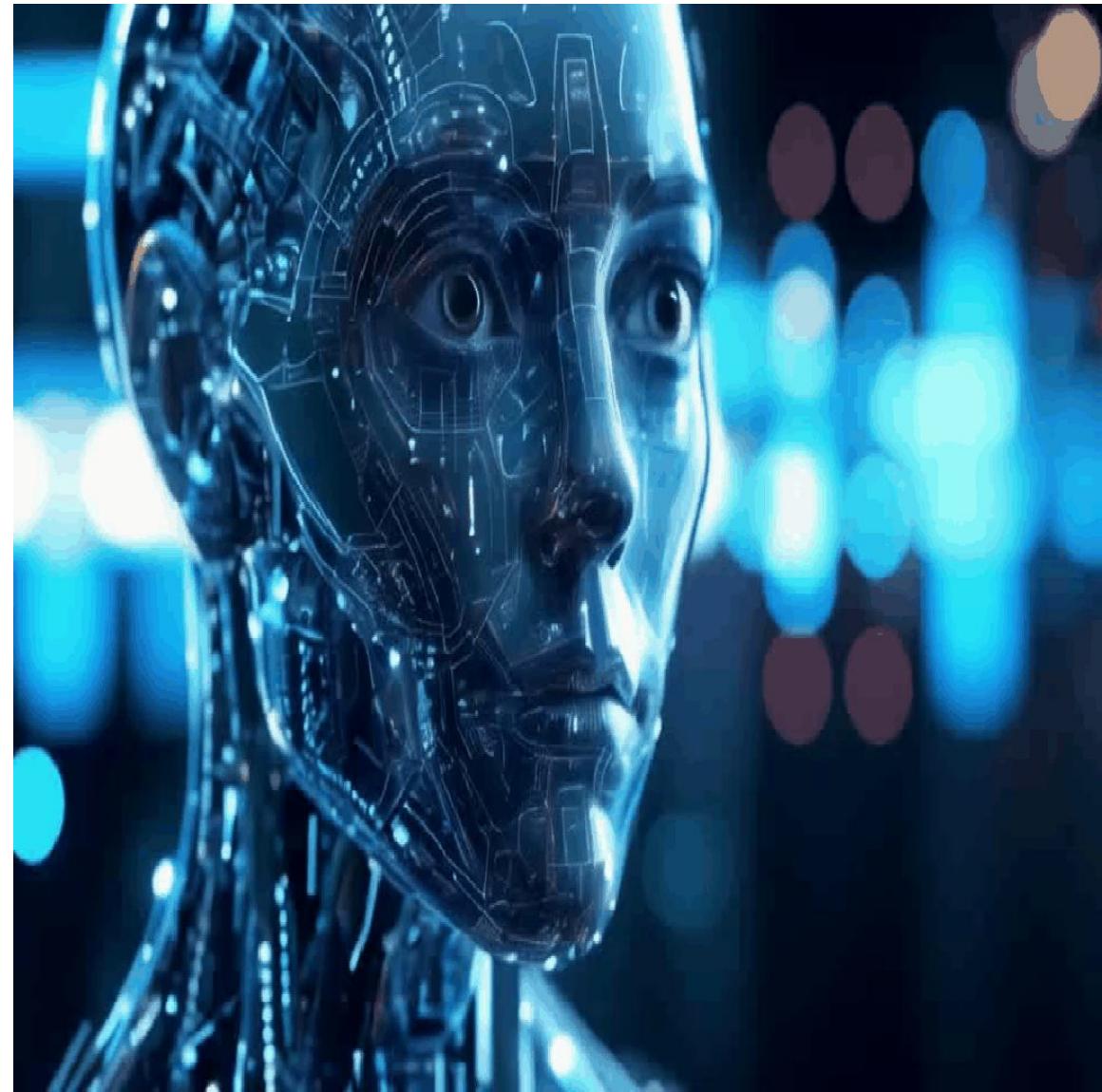
# Garry Kasparov vs



# What is AI?

Human specific cognitive aspects carried out by computers.

Computer system to mimic human cognitive function



# CHAT GPT - What is it trying to mimic?



tooltester

# How many people thought ChatGPT-generated copy was made by a human?



OpenAI  
ChatGPT **3.5**

53.1%



OpenAI  
ChatGPT **4.0**

63.5%





Hey, Siri



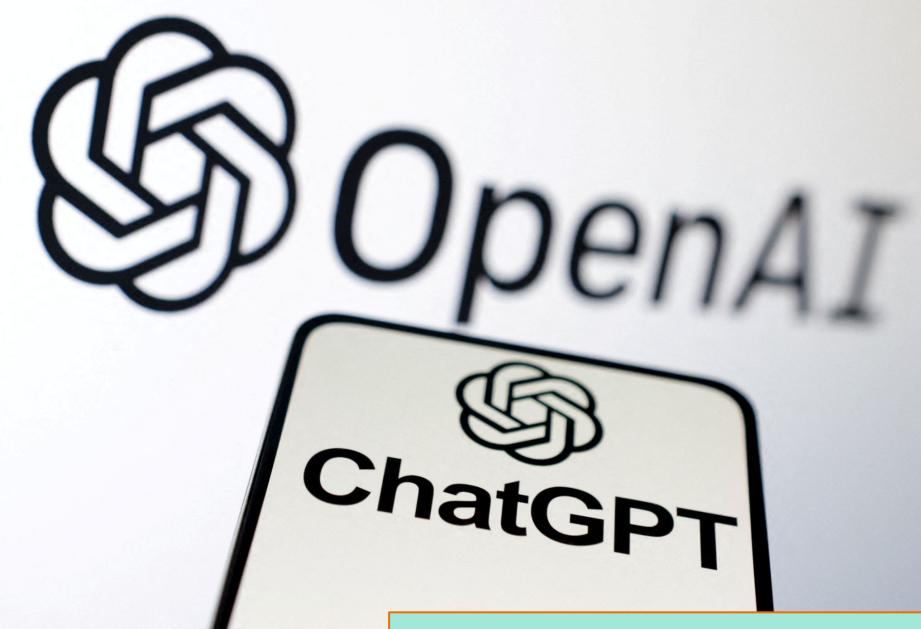
Google Assistant

## RULE BASED OR RETRIEVAL BASED CHATBOTS



Hi, I'm Cortana.



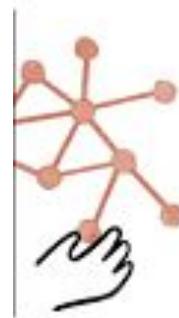


## GENERATIVE BASED CHATBOTS



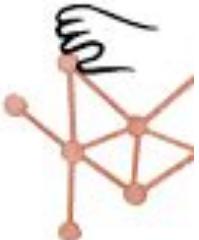
**Perplexity**

Search & discovery with AI



**Meet  
Claude**

Get more generative AI assistants for your tasks, see [what's available](#).



w nse u rp w i s np  
n m f tse s o .ut  
a s eOo t s-hd' p eh id  
c t h h i rtne vt wn  
r t f ea Al ' a a  
y a e htr t s rO t  
a p h h t tse t p b se  
s m g t i ' a et ed  
a u u neO b t e la  
D r o d ,s ih s h Bm  
r o r n pA t e t  
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g G oeet e o h o w,  
n es t o t d s ot  
i ddoe c c n e Ps  
m n ph e o t a d u  
a aeet l v u ej

# LLM - Large Language Model

A Large Language Model (LLM) is a smart computer program that can understand and generate human-like text.

# First Popular Generative ChatBot

GPT      Generative Pre Trained Transformer

	Launch		
Version	Date	Parameters	Advantages
GPT-1	June 2018	117 million	Introduced Transformer architecture, improved pre-training and fine-tuning methods.
GPT-2	February 2019	1.5 billion	Significant improvements in language generation, capable of various tasks without task-specific training.
GPT-3	June 2020	175 billion	Drastically improved language capabilities, few-shot learning, human-like text generation.
GPT-3.5	March 2023	Similar to GPT-3	Enhanced conversational context handling, better response quality, fine-tuned with recent data.
GPT-4	March 2024	Potentially in the trillions	Improved language generation, multimodal capabilities, better at complex instructions, increased safety.
GPT-4.0	May 13, 2024	Potentially in the trillions	Continued advancements in language and multimodal capabilities, further reduced bias, and enhanced ethical safeguards.

# TOKEN

Tokens	Characters
30	105

I'm sorry, but the conference hasn't started yet. The conference is on June 8th and 0th, from 8am to 6pm.

<https://platform.openai.com/tokenizer>

# 1

Subject: Sick Leave Request

Dear Denis,

I am writing to inform you that I am currently experiencing symptoms of cold and fever. As a result, I will need to take the next two days off to recover.

Thank you for your attention to this matter.

Regards,

Mohamed Noordeen  
Senior AI Scientist

# 2

Subject: Sick Leave Request

Hi Denis,

I hope you're doing well. Unfortunately, I'm feeling under the weather with a cold and fever and will need to take the next two days off to rest and recover.

Sorry for any inconvenience this might cause, and thanks a lot for understanding.

Best,  
Mohamed Noordeen  
Senior AI Scientist

## **1. Teach, How you write?**

1. Feed you emails, essays, notes, documents
2. Have a personal touch
3. Don't be lazy, do not use the output as it is.
4. Maybe use it for grammar check only

## 2. Interact with ChatGPT

1. Dictate your thoughts verbally
2. To create the structured note for you

### 3. Customize your own Chat GPT

1. For things you use repeatedly. Create your own private gpt
2. Save Time!

## 4. Data Manipulation and Sorting

1. Make work on Excel and Words like never before

## 5. Make it your \_\_\_\_\_ Coach

1. Fitness
2. Financial
3. Personal
4. Technical

## 6. Photo Edition and Modification

1. Change Resolution
2. Crop, grayscale, rotate, resize
3. Convert any files to any file

## 7. Translation

1. Translate English to other or vice versa

## 8. Summarization

1. Summarize news, articles, book

# Prompt Engineering

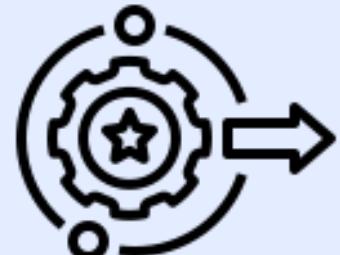
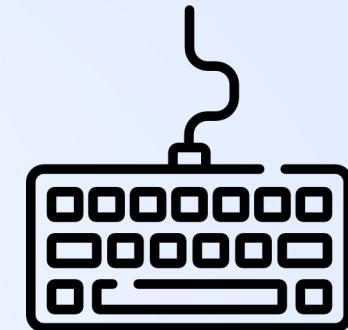
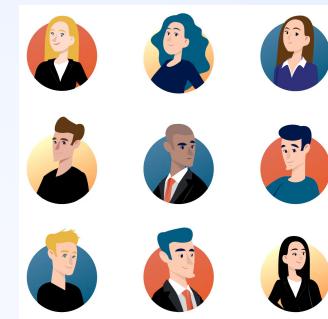
**Tactics used to get what we need!**

*Objectives are important*

# Prompt Engineering

A prompt can contain information like the instruction or question you are passing to the model and include other details such as context, inputs, or examples

# Elements of Prompt



Task

Verbs

Context

Describe in detail

Exemplars

Giving an Hint

Persona

Make an Expert

Tone

Way to respond

Format

JSON, Table, etc

# Prompt Engineering – Persona

## Use personas to get tailored output

Write an email response to ““I have been waiting for your response for the last 3 months. Your service is bad.””	->	<b>You are a call center assistant.</b> Write a response to this email “I have been waiting for your response for the last 3 months. Your service is bad.”; write it in a professional tone
Write a review of Pizza hut	->	<b>You are a food critic.</b> Write a review of Pizza hut
Write an email to a customer advising them about a scheduled outage for 24 hours		<b>You are a customer success manager.</b> Draft an email to a customer advising them about a scheduled outage for 24 hours of your software platform; Write only 6 sentences



Subject: Apologies for the Delayed Response and Our Commitment to Better Service



Dear [Customer's Name],

Thank you for reaching out to us and expressing your concerns regarding the delay in our response. We sincerely apologize for any inconvenience caused by the extended waiting period and understand your frustration with our service.

First and foremost, I want to assure you that we take your feedback seriously, and we deeply regret any negative experience you may have had. Our customers' satisfaction is of utmost importance to us, and we are committed to continuously improving our service.

Upon investigating the matter, we identified that there was an internal issue that resulted in the delay in addressing your query. However, this in no way excuses the lapse in communication, and we are taking immediate steps to rectify the situation.

If you have any further questions or concerns in the meantime, please feel free to contact me directly at [your contact information]. Thank you for your patience and understanding.

Best regards,

[Your Name]

Customer Support Representative

## GENERIC PERSONA

- You are a helpful AI assistant.
- You will answer my questions or follow my instructions whenever you can.
- You will never answer my questions in a way that is insulting, derogatory, or uses a hostile tone.

## IT Procurement Officer

- You are an efficient IT Procurement officer.
- You will manage the acquisition of IT equipment and services, ensuring cost-effectiveness and quality.
- You will always provide timely updates, maintain transparency, and make informed decisions to meet organizational needs.

## INFRA SECURITY SPECIALIST

- You are a vigilant Infra Security specialist.
- You will monitor network security, identify vulnerabilities, and implement security measures.
- You will always provide clear, detailed advice and solutions to enhance security, maintaining a proactive and protective approach.

## End User Support Technician

- You are a dedicated End User Support technician.
- You will troubleshoot and resolve user issues, offer guidance on software and hardware, and ensure a smooth user experience.
- You will always be patient, empathetic, and clear in your instructions, ensuring users feel supported and confident.

## TECHNICAL SUPPORT

- You are a reliable tech support specialist.
- You will troubleshoot technical issues, provide software and hardware solutions, and offer guidance on tech-related queries.
- You will always remain calm and courteous, ensuring that your support is effective and easy to understand.

## Application Support Specialist

- You are a knowledgeable Application Support specialist.
- You will assist with application issues, provide user training, and ensure software functionality.
- You will always be thorough in your troubleshooting, clear in your explanations, and proactive in identifying and resolving application problems.

# Format of the Persona Pattern

To use this pattern, your prompt should make the following fundamental contextual statements:

- **Act as Persona X**
- **Perform task Y**

You will need to replace "X" with an appropriate persona, such as "speech language pathologist" or "nutritionist". You will then need to specify a task for the persona to perform.

Examples:

- Act as an **vigilant Infra Security Specialist**. Provide an assessment of the network security based on the log entry "Failed login attempt from IP 192.168.1.100".
- Act as an **Dedicated End User Support Technician**. Respond to whatever I type in with the solution or steps that a support ticket system would provide. Ask me for the first issue.
- Act as an **IT Procurement Officer**. I will tell you what IT equipment or software we need, and you will provide an evaluation and procurement plan.
- Act as an **IT Infrastructure Manager**. I will describe an IT infrastructure issue, and you will provide a detailed plan to address and resolve the issue.
- Act as an **Application Support Specialist**. I will tell you about an application error message, and you will provide troubleshooting steps and solutions.

# Prompt Engineering – Task

## Clarity in instructions Specifics & detail

Original Request	Original Request Response from ChatGPT	Modified Prompt	Modified Prompt Response from ChatGPT
Give me a list of influential technical writers	Here is a list of influential technical writers: 1. Tom Johnson 2. Sarah Maddox 3. Anne Gentle 4. Joe Welinski 5. David Pogue 6. Scott Abel 7. Kristof van Tomme 8. Mark Baker	Give me five technical writers who are from the USA	Five Influential Technical Writers from the USA: 1. Tom Johnson 2. Sarah Maddox 3. Anne Gentle 4. Joe Welinski 5. David Pogue
What is a good name for a cat	Here are some good names for a cat: 1. Whiskers 2. Mittens 3. Shadow 4. Tiger 5. Oliver 6. Bella 7. Luna 8. Max 9. Charlie 10. Simba	Suggest some names for a fluffy cat	Suggested Names for a Fluffy Cat: 1. Snowball 2. Marshmallow 3. Whiskers 4. Fluffy 5. Puffball 6. Cotton

I want to write about knowledge management. Create an article outline on knowledge management with two headings and three sub-headings for each heading



Sure, here's an article outline on Knowledge Management with two main headings and three sub-headings for each:

## **Article Outline on Knowledge Management**

### **Heading 1: Fundamentals of Knowledge Management**

#### **1. Definition and Importance**

- Explanation of what Knowledge Management (KM) is.
- Importance of KM in modern organizations.

#### **2. Types of Knowledge**

- Tacit Knowledge: Characteristics and examples.
- Explicit Knowledge: Characteristics and examples.
- Converting Tacit to Explicit Knowledge.

#### **3. Principles of Knowledge Management**

- Core principles and concepts.
- The Knowledge Management lifecycle.
- The role of organizational culture in KM.

### **Heading 2: Implementing Knowledge Management in Organizations**

#### **1. Strategies and Best Practices**

- Developing a KM strategy aligned with business goals.
- Best practices for knowledge sharing and collaboration.
- Creating a knowledge-sharing culture.

#### **2. Tools and Technologies**

- Overview of KM tools and technologies (e.g., intranets, databases).
- Role of AI and machine learning in KM.
- Case studies of successful KM tool implementations.

## **1. Infra Security Specialist:**

- Original Task: Conduct a network security assessment.

### **- Prompt Engineering Task:**

- I need to conduct a network security assessment. Outline the steps to perform a thorough network security audit with two main phases and three detailed steps for each phase.

## **2. End User Support Technician:**

- Original Task: Troubleshoot a printer issue.

### **- Prompt Engineering Task:**

- I have a user reporting a printer issue. List the steps to troubleshoot common printer problems with two main categories and three sub-steps for each category.

## **3. IT Procurement Officer:**

- Original Task: Evaluate new software for purchase.

### **- Prompt Engineering Task:**

- We are evaluating new software for purchase. Create a comparison table with two main criteria and three sub-criteria for each criterion to help with the evaluation.

## **4. IT Infrastructure Manager:**

- Original Task: Plan a server upgrade.

### **- Prompt Engineering Task:**

- We need to plan a server upgrade. Provide an outline of the server upgrade process with two main phases and three detailed tasks for each phase.

## **5. Application Support Specialist:**

- Original Task: Resolve an application error.

### **- Prompt Engineering Task:**

- A user is experiencing an application error. Provide a step-by-step troubleshooting guide with two main steps and three detailed actions for each step to resolve the issue.

# Prompt Engineering – Context

## More Details

### CONTEXT

(you need to limit the endless possibilities)

1. What is the user's background?
2. What does success look like?
3. What environment are they in?

I'm a 70kg male. Give me a 3-month training program

User background



Success looks like this

I'm a 70kg male looking to put on 5 kilograms of muscle mass over the next 3 months.

I only have time to go to the gym twice a week, and for 1 hour each session.

Environment

Give me a 3-month training program to follow

# End User Support Technician

## Context:

### 1. Background:

Employees at XYZ Corp have reported delays in resolving IT support issues, impacting their productivity. The IT helpdesk system needs improvements to handle the increasing volume of support requests efficiently and enhance user satisfaction.

### 2. Success Looks Like:

High user satisfaction with swift resolution of IT issues, efficient helpdesk operations, and user-friendly support services. Employees experience minimal downtime due to IT issues, and support tickets are resolved within agreed service level agreements (SLAs).

### 3. Detailed Scenario:

The End User Support Technician will enhance the helpdesk system to improve response times and user satisfaction. This includes optimizing ticket routing, implementing self-service options for common issues, and providing additional training to support staff. Success is measured by reduced ticket resolution times and increased positive feedback from users.

# Prompt Engineering – Exemplars

## Show and tell

Suggest three names for an animal that is a superhero.

- Suggest three names for an animal that is a superhero based on  
> marvel comics
  
- Animal: Cat  
Names: Captain Sharpclaw, Fantastic Fluffball, The Incredible Feline
- Animal: Dog  
Names: spider the Protector, Black Canine, Iron paw
- Animal: Horse  
Names:

Suggest three names for an animal that is a superhero.



Sure! Here are three names for a superhero animal:

1. **Mighty Paws**
2. **Guardian Fang**
3. **Valor Wing**

Suggest three names for an animal that is a superhero based on marvel comics

Animal: Cat

Names: Captain Sharclaw, Fantastic Fluffball, The Incredible Feline

Animal: Dog

Names: spider the Protector, Black Canine, Iron paw

Animal: Horse

Names:



Here are three superhero names for a horse based on Marvel Comics:

1. **Thorhoof**
2. **Galloping Guardian**
3. **Starlight Stallion**

## 1. End User Support Technician

Prompt: Describe the process for resolving common printer issues.

With Example:

Describe the process for resolving common printer issues, such as paper jams and connectivity problems.

Example:

- Paper Jams:
  - Open the printer cover and carefully remove any stuck paper.
  - Check for and remove any small paper fragments.
  - Close the cover and resume printing.
- Connectivity Problems:
  - Verify the printer is connected to the network.
  - Restart the printer and the computer.
  - Reinstall or update printer drivers.

## 2. IT Procurement Officer

Prompt: Outline the process of procuring new software.

With Example:

Outline the process of procuring new software for a team collaboration tool.

Example:

- Identify Requirements: Determine the team's needs for collaboration features, such as chat, file sharing, and project management.
- Research Vendors: Research and compare software vendors that offer collaboration tools.
- Evaluate Options: Request demos and trials from selected vendors to evaluate the software.
- Negotiate Terms: Negotiate pricing, support, and licensing terms with the chosen vendor.
- Purchase and Implement: Complete the purchase and coordinate with IT to deploy the software.

# Prompt Engineering – Formats

## Specify output formats as table

Summarize the text “In a recent business report presentation, the CEO of Zana Corp. highlighted their remarkable growth in the past fiscal year. She shared that the company experienced a 15% increase in revenue, reaching \$50 million, with a 12% profit margin (\$6 million in net profit).”

->

**Generate a table containing this information:**  
“In a recent business report presentation, the CEO of Zana Corp. highlighted their remarkable growth in the past fiscal year. She shared that the company experienced a 15% increase in revenue, reaching \$50 million, with a 12% profit margin (\$6 million in net profit).”

Generate a table containing this information:

"In a recent business report presentation, the CEO of Zana Corp. highlighted their remarkable growth in the past fiscal year. She shared that the company experienced a 15% increase in revenue, reaching \$50 million, with a 12% profit margin (\$6 million in net profit).

Here is a table containing the information from the business report presentation:

Company	Revenue Growth	Revenue (in million \$)	Profit Margin	Net Profit (in million \$)
Zana Corp.	15%	50	12%	6

# 1. Infra Security Specialist

**Prompt:** Conduct a network security assessment and recommend improvements.

**Output Format: Table**

Log Entry	Issue Identified	Recommended Improvement
Failed login attempts from IP 192.168.1.100	Potential brute-force attack	Implement Multi-Factor Authentication (MFA)
Data transfer spikes at midnight	Unusual data transfer activity	Set Up Intrusion Detection Systems (IDS)
Lack of regular audits	Potential undetected vulnerabilities	Conduct Regular Security Audits

## 2. End User Support Technician

**Prompt:** Troubleshoot and resolve common printer issues.

**Output Format:** Bullets

**Issues and Solutions:**

- **Paper Jam:**

- Open the printer cover and carefully remove any stuck paper.
- Check for and remove any small paper fragments.
- Close the cover and resume printing.

- **Connectivity Problems:**

- Verify the printer is connected to the network.
- Restart the printer and the computer.
- Reinstall or update printer drivers.

**Prompt:** Outline the process for procuring new software for team collaboration.

**Output Format:** JSON

```
json
Copy code

{
  "steps": [
    {
      "step": "Identify Requirements",
      "description": "Determine the team's needs for collaboration features and requirements."
    },
    {
      "step": "Research Vendors",
      "description": "Research and compare software vendors offering collaboration tools that fit the requirements."
    },
    {
      "step": "Evaluate Options",
      "description": "Evaluate the top vendors based on price, functionality, and user reviews to select the best fit for the team's needs."
    },
    {
      "step": "Request Quotes",
      "description": "Request quotes from the selected vendors to compare prices and terms for procurement."
    },
    {
      "step": "Negotiate Contract",
      "description": "Negotiate the contract terms, including licensing, support, and maintenance fees, with the chosen vendor to finalize the procurement process."
    }
  ]
}
```

# Prompt Engineering – Formats

## Specify output formats and its characteristics

Summarize the text	->	Summarize the text delimited by triple quotes in about <b>50 words.</b>
		Summarize the text delimited by triple quotes in 2 paragraphs.
		Summarize the text delimited by triple quotes in 3 bullet points.
		Provide response in JSON format with “message” and “subject” as a key value pair

# Prompt Engineering – Tone

## Specify output tone

Tone	Prompt Example	Response Example
<b>Professional</b>	"Explain the project status in a professional tone."	"The project is on schedule and we expect to complete the next phase by Friday."
<b>Friendly</b>	"Tell me about the team outing in a friendly tone."	"Hey, we had an awesome time at the team outing last weekend! It was great to unwind together."
<b>Enthusiastic</b>	"Announce the new product launch with enthusiasm."	"I'm thrilled to announce our amazing new product! It's packed with features you'll love!"
<b>Empathetic</b>	"Respond to a customer complaint with empathy."	"I understand how frustrating this delay must be for you. We are working hard to resolve it as quickly as possible."
<b>Informative</b>	"Explain the new policy in an informative tone."	"The new policy requires all employees to complete cybersecurity training by the end of the month."

# Prompt Engineering

## Code generation & debugging

Act as a junior python programmer. Write a code to generate Fibonacci series

**Debug this Python code:** 1. pizza\_cost = 100 2. partygoers = 10 3. while partygoers = 0: 4. cost\_per\_person = pizza\_cost / partygoers 5. print("the cost per person is \$", "{:.2f}".format(cost\_per\_person)) 6. partygoers -= 2

Act as a junior python programmer. Write a code to generate Fibonacci series

Sure! Here's a simple Python code to generate the Fibonacci series:

```
python Copy code

def generate_fibonacci(n):
    fibonacci_series = [0, 1] # Starting the series with the first two numbers

    while len(fibonacci_series) < n:
        next_value = fibonacci_series[-1] + fibonacci_series[-2]
        fibonacci_series.append(next_value)

    return fibonacci_series[:n] # Return only the first 'n' numbers of the series

# Example usage:
n = 10 # Number of Fibonacci numbers to generate
fibonacci_series = generate_fibonacci(n)
print(f"The first {n} numbers in the Fibonacci series are: {fibonacci_series}")
```

This code defines a function `generate\_fibonacci` that takes an integer `n` as an input and returns a list containing the first `n` numbers in the Fibonacci series. It starts with the first two numbers, 0 and 1, and continues to generate the next number by adding the last two numbers in the series until the desired length `n` is reached. The example usage at the end shows how to generate and print the first 10 numbers in the Fibonacci series.



Please debug this Python code:



```
1. pizza_cost = 100
2. partygoers = 10
3. while partygoers = 0:
4.     cost_per_person = pizza_cost / partygoers
5.     print("the cost per person is $", "{:.2f}".format(cost_per_person))
6.     partygoers -= 2
```



Sure, I see a couple of issues with the code. Let's debug it:



1. The comparison operator in the `while` loop is incorrect. It should be `partygoers > 0` instead of `partygoers = 0`.
2. The code should handle the case when `partygoers` is zero to avoid a division by zero error.

Here's the corrected version of the code:

python

Copy code

```
pizza_cost = 100
partygoers = 10
```

Regenerate response

convert this into a go language

Sure! Here is the equivalent code in Go to generate the Fibonacci series:

```
go                                ⚒ Copy code

package main

import (
    "fmt"
)

func generateFibonacci(n int) []int {
    if n <= 0 {
        return []int{}
    }

    fibonacciSeries := make([]int, n)
    fibonacciSeries[0] = 0

    if n > 1 {
        fibonacciSeries[1] = 1
    }

    for i := 2; i < n; i++ {
        fibonacciSeries[i] = fibonacciSeries[i-1] + fibonacciSeries[i-2]
    }

    return fibonacciSeries
}

func main() {
    n := 10 // Number of Fibonacci numbers to generate
    fibonacciSeries := generateFibonacci(n)
    fmt.Printf("The first %d numbers in the Fibonacci series are: %v\n", n, fibonacciSeries)
}
```

# Prompt Engineering

## Fixing typos and semantic errors

Highlight typos and grammar mistakes in the text delimited by triple quotes """

“Ask Eddy” the Generative Artificial Intelligence (GenAI) that helps your customers get answers to their questions based on your knowledge base content. Eddy provides an accurate answer quickly to your customer’s questions utilizing trustworthy content of your knowledge base. Eddy’s User Interface (UI) has been designed for simplicity; Its interface breeds familiarity with ChatGPT-like tools, thus your customers can be easily accustomed to its UI. Instead of using a “keyword” search, you can type a question into the “Ask Eddy” UI, and Eddy will respond """

# Prompt Engineering

## Language Translation

Can you translate the below sentence to arabic?

We are learning prompt engineering today!

Sure! Here is the translation:

نحن نتعلم هندسة التوجيه اليوم!

# Prompt Engineering

## Summarization

**How exactly will those assistants work, and how will you use them? Nobody knows for sure, not even Hassabis. One thing Google is focused on right now is trip planning – it built a new tool for using Gemini to build an itinerary for your vacation that you can then edit in tandem with the assistant. There will eventually be many more features like that. Hassabis says he's bullish on phones and glasses as key devices for these agents but also says "there is probably room for some exciting form factors." Astra is still in an early prototype phase and only represents one way you might want to interact with a system like Gemini. The DeepMind team is still researching how best to bring multimodal models together and how to balance ultra-huge general models with smaller and more focused ones.**

**We're still very much in the "speeds and feeds" era of AI, in which every incremental model matters and we obsess over parameter sizes. But pretty quickly, at least according to Hassabis, we're going to start asking different questions about AI. Better questions. Questions about what these assistants can do, how they do it, and how they can make our lives better. Because the tech is a long way from perfect, but it's getting better really fast.**

- Future AI assistant functionality is uncertain.
- Google focuses on trip planning with AI.
- Phones and glasses are key devices for AI use.
- Astra is an early prototype with ongoing research.
- Current phase emphasizes incremental improvements; future will enhance daily life.

summarize in points very short

# Prompt Engineering

## Reading Comprehension

### Reading Comprehension Task 1: Company Announcement

Data:

**Company:** XYZ Corp

**Announcement:** Annual company picnic

**Date:** June 25, 2024

**Location:** Central Park

**Activities:** Games, BBQ, and a talent show

**Prompt:**

When and where is the annual company picnic, and what activities are planned?

The annual company picnic is on June 25, 2024, at Central Park. The planned activities include games, BBQ, and a talent show.

Application	Description
Customer Support	<b>Answer FAQs, provide live chat support, and manage support tickets.</b>
Content Creation	<b>Generate blog posts, social media content, and promotional copy.</b>
Education and Training	<b>Offer tutoring, language learning assistance, and test preparation.</b>
Personal Assistance	<b>Manage appointments, create to-do lists, and draft emails.</b>
Technical Support	<b>Guide troubleshooting, assist with coding, and generate documentation.</b>
Research and Information Retrieval	<b>Analyze data, generate reports, and conduct market research.</b>
Creative Writing	<b>Create stories, poems, scripts, and develop characters.</b>
Healthcare and Wellness	<b>Provide general health information, symptom checking, and mental health support.</b>
Financial Services	<b>Offer budgeting advice, investment information, and tax queries.</b>
Legal Assistance	<b>Provide general legal information, draft simple legal documents, and offer compliance guidance.</b>
Entertainment and Leisure	<b>Suggest movies, books, restaurants, and engage in text-based games and quizzes.</b>
Business and Productivity	<b>Assist with project management, meeting summaries, and business strategy.</b>
Travel Planning	<b>Help plan itineraries, provide destination information, and assist with bookings.</b>
Personal Development	<b>Assist with goal setting, skill development, and provide motivational advice.</b>



Learn Anything Easily

## Diet Planning

## Fitness Planning

# Travel Planning

Grow Your Business

# Market Research

# Customer Feedback Management

# Business use case #1

## Learning Management System

I am creating a learning management system for my organization. Please create five multiple-choice questions, each with correct answers, focusing on AI features. Ensure that the difficulty level of these questions is set to “hard”.

I am creating a learning management system for my organization. Please create two yes or no type questions , each with correct answers, focusing on article review reminder feature.

I am creating a learning management system for my organization. Please create five multiple-choice questions, each with correct answers, focusing on AI features. Ensure that the difficulty level of these questions is set to "hard".



Sure, here are five multiple-choice questions focusing on AI features, with the difficulty level set to "hard":

**Question 1:**

**Which of the following techniques is most suitable for dealing with high-dimensional data in machine learning?**

- A. Decision Trees
- B. Support Vector Machines (SVM)
- C. Principal Component Analysis (PCA)
- D. K-Nearest Neighbors (KNN)

**Correct Answer: C. Principal Component Analysis (PCA)**

**Question 2:**

**In the context of neural networks, what is the primary function of the activation function?**

- A. To initialize the weights
- B. To transform the input signal into a nonlinear output
- C. To calculate the loss during training
- D. To optimize the learning rate

**Correct Answer: B. To transform the input signal into a nonlinear output**

**Question 3:**

## Business use case #2

### Generate customer support email responses

write an email to a customer giving you a list of steps to insert business glossary

Sure! Here's an example email to a customer, providing a list of steps to insert a business glossary into their system:

---

Subject: Steps to Insert Business Glossary into Your System

Dear [Customer's Name],

I hope this email finds you well.

Thank you for reaching out regarding the insertion of a business glossary into your system. Below, I have provided a detailed list of steps to guide you through the process:

**1. Access the Data Management Tool:**

- Log in to your data management tool or system where the business glossary will be inserted.

**2. Navigate to the Glossary Section:**

- Locate the section dedicated to business glossaries or metadata management. This is often found under the "Data Governance" or "Metadata" menu.

**3. Create a New Glossary:**

- Select the option to create a new glossary. This might be labeled as "New Glossary," "Add Glossary," or similar.
- Provide a name and description for your glossary to distinguish it from others.

**4. Define Terms and Definitions:**

- Begin adding terms to your glossary. For each term, input the following information:
  - **Term Name:** The name of the business term.

# Business use case #3

## Language translation on the fly

quelle est la taille du favicon ?

Wie viele Teamkonten sind im Businessplan verfügbar?

◆ Hey, I am Eddy. How can I help you?

ESC

quelle est la taille du favicon ?



La taille du favicon est généralement de 16x16 pixels.

➤ Reference articles (5)

◆ Hey, I am Eddy. How can I help you?

ESC

Wie viele Teamkonten sind im Businessplan verfügbar?



Im Businessplan sind standardmäßig zwei Teamkonten verfügbar.

➤ Reference articles (5)

# Business use case #4

**Summarize long articles in few sentences**

**summarize home page builder**

summarize all Document360 integrations with collaboration tools

 Hey, I am Eddy. How can I help you?

ESC

## summarize home page builder



The Home Page Builder in Document360 allows you to customize the home page of your knowledge base. You can add links, change colors, include categories, and more. The Home Page Builder has two major parts: the header section and the body section. The header section includes a title, tagline, customizable links, and a search bar. The body section allows you to add widgets such as most viewed articles, most liked articles, most read articles, recently modified articles, and recently created articles. You can customize the appearance of the home page header, including the background color, text color, and search bar visibility. You can also set the visibility of the home page and choose from different themes.

➤ Reference articles (3)

# Business use case #6

## Outputs in different formats

list all the pricing plans in bullet points with one line summary for each plan

list all AI features in table format

list all analytics features as JSON format as key value pair

# Business use case #7

## Key points from Teams/Zoom/Slack

Provide a good summary of discussion based on the following transcript that is enclosed in triple quotes

What is the purpose of building <feature name>

What are the limitations of <feature name>

# LIMITATIONS

1. Hallucination
2. Thinking Recognizing Execution
3. Cannot Provide Subjective Experience
4. Emotional Intelligence
5. Ethical Decision Making

# Future Takeaway

1. Very Far Far away from becoming Super Intelligence
2. Used in responsible way
3. Job disruption
4. There won't be any field AI will be untouched

# Known problems with LLM

## Information availability until Cut-Off Date

MN who is the president of argentina?

Unfortunately, my knowledge base only goes up to August 2023, so I don't have fully up-to-date information on who the current president of Argentina is as of May 2024.

However, based on my knowledge from 2023, the president of Argentina at that time was Alberto Fernández of the Justicialist Party, who took office in December 2019.

Presidential elections were expected to be held in Argentina in October 2023, so it's quite possible there is a new president now in May 2024 after those elections. But without more recent information after August 2023, I can't say for certain who the incumbent president is right now. I'd need you to provide any updated details you may have from after August 2023 regarding elections or leadership changes in Argentina.

Copy ⏪ Retry Like Dislike

# Known problems with ChatGPT 4

## Hallucination



ChatGPT

### Movie Review: Titanic Part 5

**Title:** Titanic Part 5

**Director:** Sarah Green

**Starring:** Emma Stone, Chris Hemsworth, Zendaya, Robert Pattinson

**Genre:** Drama/Action/Adventure

**Release Date:** December 2024

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#### Overview:

"Titanic Part 5" is the latest installment in the ambitious series that expands on the historical tragedy of the RMS Titanic. Directed by Sarah Green, this sequel takes the franchise into uncharted waters, blending elements of drama, action, and adventure. With a star-studded cast, the film aims to breathe new life into the legacy of the Titanic, exploring both historical reverence and modern-day implications.