



# BEYOND AI DIGITAL LITE

Practical Application of AI  
in the Classroom

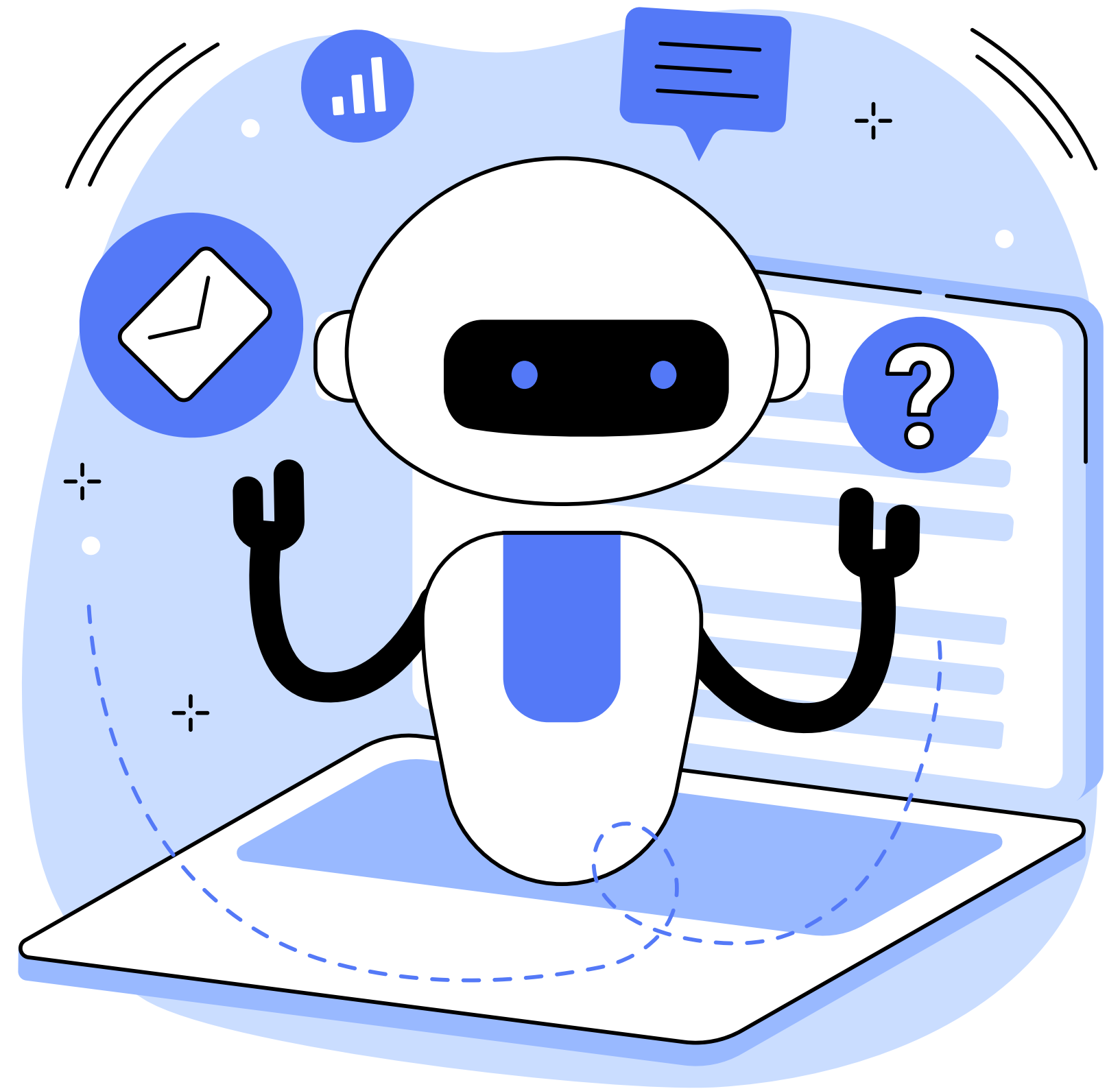
# Agenda



- 1 What is Prompt Engineering and why does it matter?
- 2 Prompt Engineering
  - a CREATE Method
  - b Teaching AI to Mimic Your Writing Style
- 3 AI Research Tools & AI Illumination Tools

# Thesis

This presentation is designed to empower faculty and staff with the knowledge and techniques necessary for crafting AI prompts that yield specific outcomes. Participants will gain insights into the inner workings of AI language models and learn how to leverage this knowledge to produce desired AI responses.



# What is Prompt Engineering?

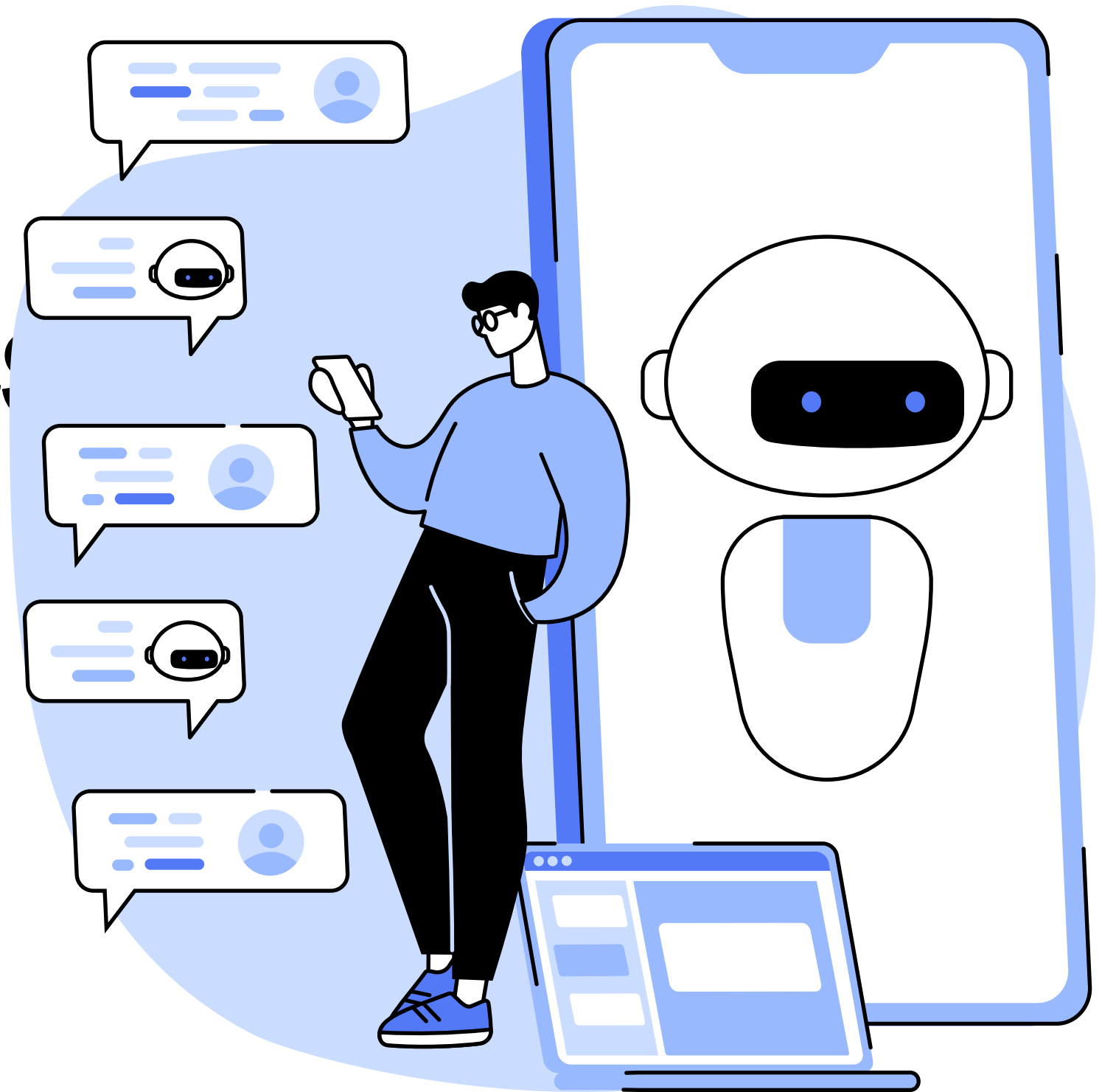
Prompt engineering is a discipline focused on designing and optimizing prompts to enhance the performance and reliability of AI models, [particularly LLMs](#). By carefully crafting prompts, prompt engineers maximize the model's ability to understand and respond to user inputs, leading to more relevant and informative outputs.

LLM = Large Language Model

# Prompt Engineering Basics

To achieve your intended outcome:

- be concise
- be clear
- provide context
- get creative



# CREATE Method

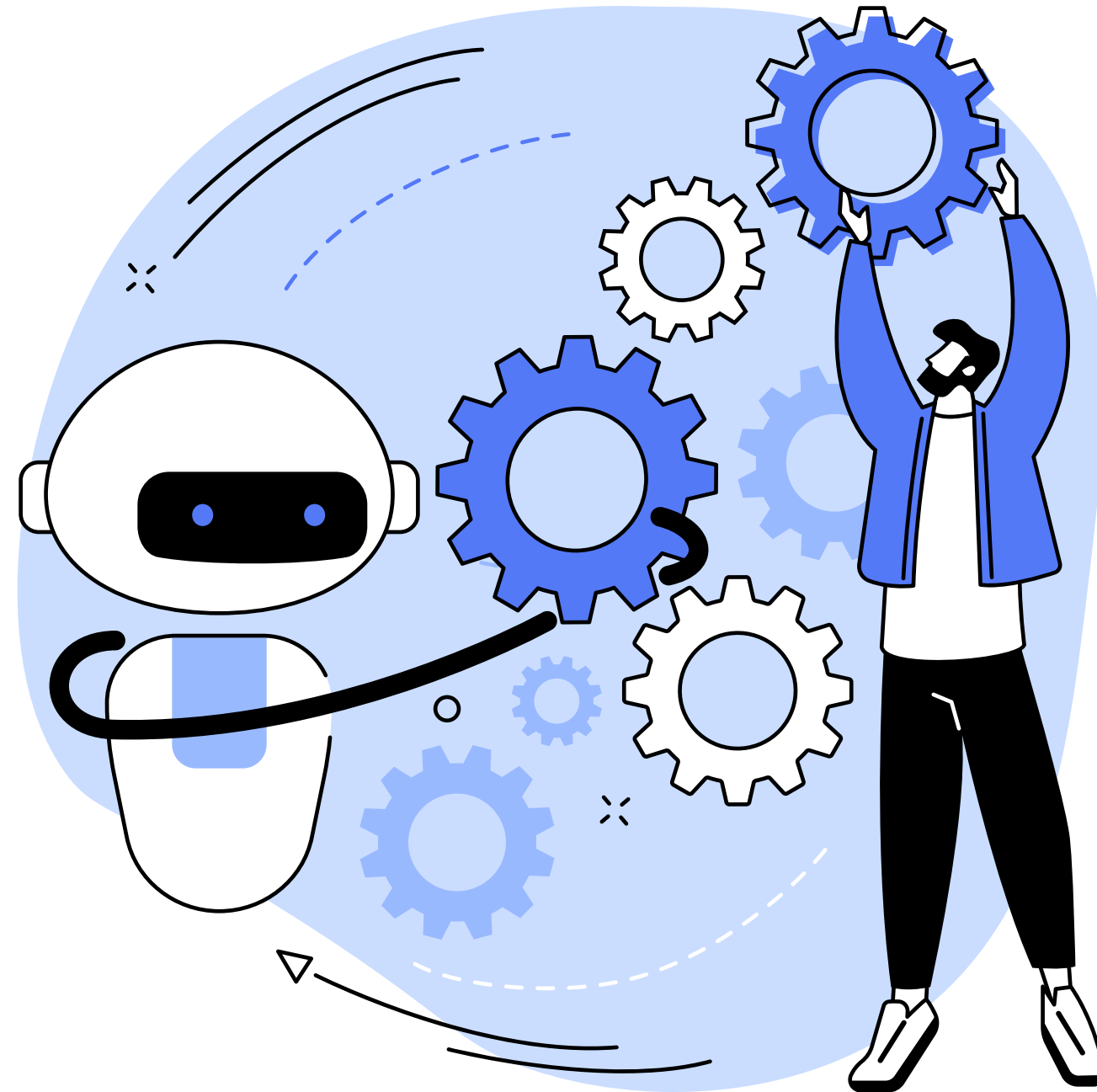
1. **C**haracter

2. **R**equests

3. **A**djustm ents

4. **T**ype

5. **E**xtras



What role is Chat  
GPT playing?

What is the ask?

Can you be more  
specific?

Email, essay,  
speech?

Clarify.

# Demo

# Teaching AI to Mimic Your Writing Style

Teaching AI to write like you through a series of prompts that analyze your existing writing, extract relevant information about your tone, and mimic your style.





# “AI In Your Voice” Debunked

## AI Has Limited Memory

Each AI model has its own word limits —it can be referred to as Context Length, Context Limit, or Context Window.

Here’s a breakdown of the limit of the most popular AI models:

- GPT-3.5: ~3,072 words (4,096 Tokens)
- GPT-3.5-16k: ~12,288 words (16,384 Tokens)
- GPT-4: ~6,144 words (8,192 Tokens)
- GPT-4-32k: ~24,576 words (32,768 Tokens)
- Claude Instant: ~75,000 words (100,000 Tokens)
- Claude 2: ~75,000 words (100,000 Tokens)

In other words, at some point in your conversation your initial voice instruction will disappear from the AI’s memory.

As a result, the quality of your outputs will deteriorate and start to sound less and less like your actual voice.

Example -->

## AI Has Higher Priorities

AI has a “system message.” A system message is a set of instructions given to the AI model that dictates how it “behaves” when you interact with it.

According to [OpenAI’s own documentation](#), GPT-4 prioritizes this system message above any prompts you give it.

The default system message given to ChatGPT every time you start a chat is, “You are a helpful assistant.” A generic instruction meant to aim the AI at being as helpful as possible in the most generalized terms.

# John Steinbeck in Chat GPT's Training Data & Chat GPT 4 Reading List

The works of John Steinbeck published during his lifetime:

- 26 books
- 6,629 pages
- 3,314,500 words
- aprox. 20% of Steinbeck's works were used to train Chat GPT
- =662,900 words or 1,325 pages

Book title	Author	GPT-4's score
Harry Potter and the Sorcerer's Stone	J.K. Rowling	<div>76%</div>
Dune	George Orwell	<div>57%</div>
The Fellowship of the Ring	J.R.R. Tolkien	<div>51%</div>
Fifty Shades of Grey	E.L. James	<div>49%</div>
The Hunger Games	Suzanne Collins	<div>48%</div>
Lord of the Flies	William Golding	<div>43%</div>
The Hitchhiker's Guide to the Galaxy	Douglas Adams	<div>43%</div>
Things Fall Apart	Chinua Achebe	<div>30%</div>
The Silmarillion	J. R. R. Tolkien and Christopher Tolkien	<div>28%</div>
Fahrenheit 451	Ray Bradbury	<div>27%</div>
A Game of Thrones	George R.R. Martin	<div>27%</div>
The Da Vinci Code	Dan Brown	<div>26%</div>
Dune	Frank Herbert	<div>26%</div>
Their Eyes Were Watching God	Zora Neale Hurston	<div>25%</div>
To Kill a Mockingbird	Harper Lee	<div>25%</div>
Casino Royale	Ian Fleming	<div>24%</div>
Neuromancer	William Gibson	<div>22%</div>
Ender's Game	Orson Scott Card	<div>20%</div>
Brave New World	Aldous Huxley	<div>19%</div>
Gone with the Wind	Margaret Mitchell	<div>18%</div>
Do Androids Dream of Electric Sheep?	Philip K. Dick	<div>17%</div>
The Lost Symbol	Dan Brown	<div>16%</div>
Inferno	Dan Brown	<div>15%</div>
Divergent	Veronica Roth	<div>15%</div>
The Grapes of Wrath	John Steinbeck	<div>15%</div>

Note: List doesn't include books in the public domain.

# Teaching AI To Mimic Your Writing Style

## 1. Describe Your Tone

The first step to train ChatGPT to write like you is to give it a good understanding of your writing tone. AI struggles to infer your tone or style nuances on its own. Instead, we need to provide it with structured input and explicit instructions to effectively analyze and describe tone.

## 2. Work with Models Training Data

Chat GPT is biased towards its training data. To overcome this, we can identify which famous writers or public figures your writing style resembles most closely, and then instruct ChatGPT to write like these figures.

## 3. Create a Writing Profile

With the tone description and author identities in hand, we are now ready to train ChatGPT to write like you with your unique style and tone. The key here is to effectively communicate all these parameters to the AI in a structured manner.

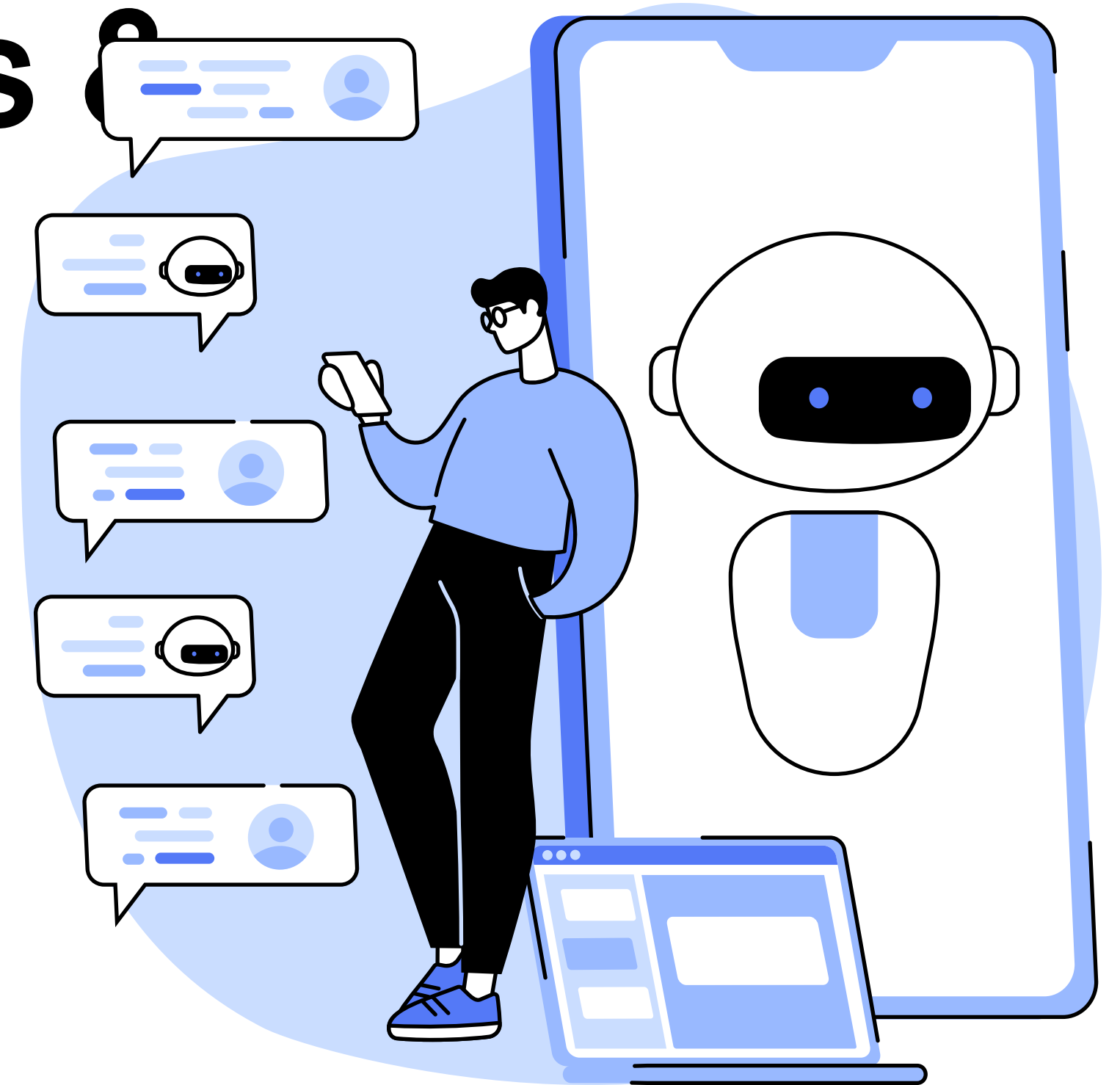
# How to Get AI to Write in Your Voice - Prompt

# AI Research Tools

## AI Illumination Tools

Top AI Research Tools:

- [Perplexity](#)
- [Scite](#)
- [Research Rabbit](#)
- [Chatbot Arena](#)
- [Explain Paper](#)



# Works Cited

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**QUESTIONS?**