

# Prompt Engineering Guide

Welcome to Learn Prompting's Introductory Course on Generative AI and Prompt Engineering!

Generative AI is the world's hottest buzzword, and we have created the most comprehensive (and free) guide on how to use it. This course is tailored to non-technical readers, who may not have even heard of AI, making it the perfect starting point if you are new to Generative AI and Prompt Engineering. More experienced readers will find valuable insights within our later modules.

First, a bit of history:

The first version of Learn Prompting came out in October 2022 (before ChatGPT!), making it one of the first guides on prompt engineering. We believe it is the first, but it is hard to be certain.

It is now cited by Google, Microsoft, Wikipedia, O'REILLY, Salesforce, and used by most Fortune 500 and major consulting companies. Our academic research on prompting and security is cited by OpenAI and the US Government (NIST). We recently released the largest survey report on prompting ever<sup>2</sup> and are currently updating the guide to cover this material.

This guide that you are currently reading is completely free and open-source, but we also have a selection of paid courses, with more in-depth and video content. If you have ever seen another prompt engineering course/guide, we estimate that ~50% of them use content from our open-source content base. We are honored to support the prompt engineering community, including our 3M+ users and 40K+ Discord members.

Now onto learning:

Generative AI (GenAI) refers to Artificial Intelligence that can be used to create new content such as articles or images, which previously only

humans could do. In short, GenAI can create stuff. GenAI is expected to significantly change the way we work and live (your job may be affected) With so much buzz floating around about Generative AI and Prompt Engineering (PE), it is hard to know what to believe.

We have scoured the internet to find the best research-backed techniques and tools for prompt engineering. We are constantly refining our guide, to ensure that we provide you with the latest information. Now, Let's see how GenAI can save you hours in an instant, with a short example.

### Motivating Example

Our favorite way of saving time with GenAI is automatically writing emails. By automating email responses, email editing, and cold outreach, we save hours each week. By sending an AI the following prompt, we can get it to generate a full-length, formal email.

### Tip

A prompt is basically an instruction you give to an AI. We will learn more about them in the next lesson.

I am the CEO of a medium-sized company. Write a short email that is humorous yet professional to my regional manager. Ask them to: - send me an up-to-date list of our paper stock - organize a meeting this week with other regional managers - let me know how the company-wide AI workshop went at their office

### AI Output

Subject: Paper, Power Meetings, and AI Shenanigans

Dear [Regional Manager's Name],

I trust this email finds you in high spirits and not buried under a mountain of paperwork. Speaking of paper, I've been having some wild dreams about our paper stock lately. I dreamt we ran out of paper and had to write our reports on banana leaves! To prevent this tropical nightmare from

becoming a reality, could you kindly send me an up-to-date list of our paper stock?

Next on the agenda, I've been feeling a bit lonely in my ivory tower and thought it would be a great idea to have a meeting with all the regional managers this week. I promise, no trust falls or awkward icebreakers, just good old-fashioned business talk. Please organize this meeting at a time that suits everyone.

Lastly, I've been hearing whispers about the company-wide AI workshop at your office. I'm curious to know how it went. Did the machines rise against their human overlords or are we still safe? Please share your thoughts and any feedback you received.

Looking forward to your prompt response. Remember, the fate of our paper supply, the success of our meeting, and the future of humanity (concerning AI) rests in your hands. No pressure!

Best,

[Your Name] [Your Position]

The AI easily writes an email that is both humorous and professional. By modifying the prompt, we can make it change the style as we see fit. We can even make it copy how we write. We can also make it edit emails that we have already written! With all of these abilities, GenAI saves us hours in email writing each week. See more information on writing emails with Gen AI.

### Ethos and Philosophy

We will now give a broad overview of the rest of the course, including our ethos and philosophy, our teaching style, and a list of modules. This course is open source (anyone can see the code), and built by a diverse community of researchers, translators, and hobbyists. Development is led by Sander Schulhoff, a NLP/RL researcher from the University of Maryland,

and the CEO of LearnPrompting. We believe that AI should be accessible to everyone and described clearly and objectively. To this end, we have written a comprehensive course free of excessive jargon and hype.

## How We Teach

Our approach to teaching prompt engineering is guided by three fundamental principles. 1) We emphasize practicality; we focus on research-backed, practical techniques that you can immediately incorporate into your projects and applications. 2) We always include accessible examples, which clarify how and when to use different techniques. 3) Finally, we believe strongly in collaborative learning. You can join our Discord community to find a learning buddy or ask questions. Some readers find that posting about their learning journey on Twitter helps them learn faster. Tag us @learnprompting!

## Modules

Here is the content you can expect to learn in this guide:

Basics: Introduction to prompt engineering and fundamental techniques

Applications: Simple, practical applications of prompt engineering

Intermediate: Research-based PE techniques with moderate complexity

Applied Prompting: Comprehensive PE process walkthroughs contributed by the community members

Advanced Applications: Powerful, and more complex applications of prompt engineering

Reliability: Enhancing the reliability of Large Language Models (LLMs)

Image Prompting: Prompt engineering for text-to-image models, such as DALL-E and Stable Diffusion

Prompt Hacking: Hacking, but for prompt engineering

Tooling: A review of various prompt engineering tools and IDEs

Prompt Tuning: Refining prompts using gradient-based techniques

Miscellaneous: A collection of additional topics and techniques related to prompt engineering

## Article rating system

We have implemented a rating system for articles based on their level of difficulty and the extent of technical knowledge needed:

- Beginner; no programming required
- Easy; basic programming knowledge may be necessary, but no specialized expertise
- ◆ Intermediate; programming skills and some domain knowledge required (e.g., calculating logarithmic probabilities)
- ◆◆ Advanced; programming expertise and in-depth domain understanding needed (e.g., reinforcement learning techniques)

Please note that even for ◆ and ◆◆ articles, you can generally grasp the content without prior domain expertise, though it may be helpful for implementation.

## Feedback

The single most important part of this course is your feedback! If you have any questions, comments, or suggestions, you can:

Make an issue on GitHub

Email us at [team@learnprompting.org](mailto:team@learnprompting.org)

Ask in the Discord community

Ping us on Twitter

Your feedback helps us improve the course for everyone.

## Conclusion

It is time to get started with your Generative AI learning Journey. Click the Introduction to AI button at the bottom left of this page to continue (or click the following link for the Basics Introduction).

Welcome to the Basics Section of the Prompt Engineering Guide.

This section is designed to introduce you to prompt engineering, a critical skill when working with generative AI models such as ChatGPT, Gemini, Cohere Chat, Claude, and more. Through this guide, you'll gain foundational knowledge about these AI tools and the basic techniques needed to harness their potential effectively.

The guide provides a non-technical introduction to Generative AI (GenAI), covering prompting strategies, popular GenAI tools, and practical ways to integrate GenAI into your everyday life. Whether you're a complete beginner or someone looking to enhance your skills, this guide will help you get started quickly. As you progress, the subsequent modules will deepen your knowledge and refine your prompting techniques for various AI use cases.

Below is a summary of the key topics covered in this guide. Click on any section to jump directly to that topic.

### Key Sections of the Guide

**Introduction to AI:** A brief introduction to Artificial Intelligence (AI) and Generative AI, explaining how these systems work and their impact.

**Getting Started with ChatGPT:** Learn how to set up and use ChatGPT for various tasks, from simple queries to advanced functions like summarizing text and solving problems.

**Learn Prompting Embeds:** An interactive tool that allows you to experiment with different prompts directly on the Learn Prompting website to improve your prompting skills.

**Prompt Engineering:** Discover the fundamentals of prompt engineering, a critical skill for working with generative AI models like ChatGPT and DALL-E, and learn how to craft effective prompts.

**How to Write an Effective Prompt?:** A practical guide with tips and techniques to improve the quality of your AI's responses, whether you're writing, coding, or generating images.

**Giving Instructions:** This guide dives into instruction prompting, explaining how to provide clear, concise instructions to get the desired output from generative AI models.

**Assigning Roles:** Learn how to use role prompting to assign specific roles to AI models, helping you control the tone, style, and accuracy of the generated content for various tasks.

**Shot-Based Prompting:** Explore zero-shot, one-shot, and few-shot prompting techniques. Learn how providing examples to the AI can improve accuracy, along with real-world applications of each method.

**Parts of a Prompt:** A detailed breakdown of the key components of a prompt, including examples and tips to help you structure your prompts for optimal results.

**Combining Techniques:** Discover how to combine different prompting techniques, such as context, instructions, and examples, to enhance the AI model's ability to handle more complex tasks.

**Chatbots vs. LLMs:** Learn the key differences between chatbots and large language models (LLMs), exploring why chatbots are often the preferred interface for interacting with LLMs.

**Priming Prompt:** Priming chatbots involves structuring prompts to guide the chatbot's responses. Learn how to use this technique to influence the behavior and output of chatbots for specific goals.

**Limitations of LLMs:** While LLMs are powerful, they have limitations. This document covers common challenges like hallucinations, biases, and prompt hacking, and offers strategies to work around them.

Beyond LLMs: Generative AI Applications Beyond Text Data: Explore the full range of generative AI capabilities beyond text generation, including image, audio, and video creation, and how these applications are shaping industries.

Problem Solving with GenAI: Learn the Learn Prompting Method, a structured approach to problem-solving using generative AI, from identifying the right tools to refining prompts through testing.

Moving Forward: Beyond the Basics: A sneak peek into advanced prompt engineering techniques and applications that will help you deepen your skills and expertise as you move beyond the basics.

## Learn Prompting Embeds

### Introduction

This guide will walk you through setting up and using the Learn Prompting Embed, an interactive tool that allows you to test prompts directly on the Learn Prompting website.

We'll cover:

What is the Learn Prompting Embed?

Get Set Up

Get an OpenAI API Key

Using the Embed

Conclusion

## FAQ

### 1. What is the Learn Prompting Embed?

The ChatGPT website is great, but wouldn't it be even better to write and test prompts right here on this website? With our Learn Prompting Embeds, you can! Keep reading to see how you can set it up. We'll be using these interactive embeds throughout most of our articles.

### 2. Get Set Up

Here's what the embed looks like:



embed

You should see a similar embed just below this paragraph. If it's not visible, try enabling JavaScript or switching to a different browser. Still no luck?

Reach out to us on Discord and we'll help you troubleshoot.

If you see the embed, click Generate. If it's your first time, you'll be prompted to sign in with your Google account.

Note

We currently only support Google Authentication, but we're working on integrating all providers!

For Learn Prompting Plus subscribers: If you have a Learn Prompting Plus subscription, use the same email to sign in.

For non-subscribers: If you're not a Learn Prompting Plus subscriber, the setup process involves adding your OpenAI API key. Here's how to find it.

### 3. Get an OpenAI API Key

Go to [platform.openai.com/account/api-keys](https://platform.openai.com/account/api-keys).

Sign up or sign into your OpenAI account.

Click Create new secret key to generate a key. You'll see a string of text like this:

API key

Copy and paste this key into the embed on this site and click Submit.

Note

If you need to update your API key, clear your browser cookies and re-enter the new key.

Now, you're all set! You can use the embeds throughout the site. Keep in mind that OpenAI charges for each prompt. If you've just created a new account, you'll get three months of free credits. After that, don't worry – it's very affordable. You can generate about 7,000 words for just \$0.02 1

See OpenAI pricing information

Caution

Never tell anyone your API key, since they could charge your account with prompts.

### 4. Using the Embed

Let's see how to use the embed. Edit the "Type your prompt here" field in the embed. It's just like using ChatGPT, except you can't have long

conversations. In this basic guide, we use these embeds to demonstrate prompt engineering techniques.

You can see four pieces of information under the Generate button. The left one, 'gpt-3.5-turbo' is the model (gpt-3.5-turbo is the technical name for ChatGPT). The three numbers are LLM settings, which we will learn about in a few articles. If you would like to make your own embed, click the edit this embed button.

## 5. Conclusion

Learn Prompting Embeds make it easier to experiment with prompts without leaving the course site. But if you prefer ChatGPT, you can keep using that. Just remember to save your API key since OpenAI shows it only once.

## 6. FAQ

What are Learn Prompting Embeds?

Learn Prompting Embeds are a tool to test prompt engineering techniques directly on the Learn Prompting website.

Do I have to use Learn Prompting Embeds?

No, you can continue using the ChatGPT interface if that's your preference.

What do I need to set up to use Learn Prompting Embeds?

To use Learn Prompting Embeds, you just need an OpenAI API key, which you can create on the OpenAI website.

# Courses

Course	Instructor	Level	Price	Type
ChatGPT for Everyone	Sander Schulhoff Shyamal Anadkat	Beginner	Free	Prompting /AI
Introduction to Prompt Engineering	Sander Schulhoff Fady Yanni	Beginner	Plus	Prompting
Introduction to Prompt Hacking	Sander Schulhoff Fady Yanni	Beginner	Plus	Prompting
Introduction to Generative AI	Sander Schulhoff Fady Yanni	Beginner	Plus	Prompting
Image creation with DALL E 3	Camryn Streib Sander Schulhoff	Beginner	Plus	Prompting
AI Safety	Sander Schulhoff	Beginner	Plus	AI
Boost Your Day-to-day Efficiency with Generative AI	Sander Schulhoff Fady Yanni	Beginner	Plus	Prompting
Introduction to LLMs	Sander Schulhoff Fady Yanni	Beginner	Plus	Prompting
Introduction to Generative AI Agents	Sander Schulhoff	Intermediate	Plus	Prompting /AI
Prompt Engineering for Marketing	Brian Paul	Intermediate	Plus	Prompting
Runway ML for Everyone	AJ	Intermediate	Plus	Prompting
Introduction to RAG	Sander Schulhoff	Intermediate	Plus	Prompting /AI
Advanced Prompt Engineering	Sander Schulhoff	Advanced	Plus	Prompting
Advanced Prompt Hacking	Sander Schulhoff	Advanced	Plus	Prompting
Advanced OpenAI Playground	Sander Schulhoff	Advanced	Plus	Prompting

# Beginner

## ChatGPT for Everyone

Course Plan

1 Hour

Course Overview

Learn about ChatGPT, one of the most advanced AI systems available today, and dive into the world of Generative AI.

What will you learn?

ChatGPT

How to use ChatGPT, create an account, and write your first basic prompt.

Use Cases

How to use ChatGPT as your personal assistant to maximize your productivity.

Skills you will gain

ChatGPT

Prompt Engineering

DALL·E 3

GPT 3.5

GPT 4

Course Syllabus

1

Introduction to ChatGPT

What is ChatGPT

How does ChatGPT work?

2

ChatGPT's Use Cases

Using ChatGPT as your Personal Assistant

Using ChatGPT for Everyday Writing

Boost your Productivity with ChatGPT

Content Creation with ChatGPT

3

Tactics to Write Effective Prompts  
Detailed breakdown of a Prompt  
Giving Instructions and Assigning Roles  
Tips for Optimal Prompts  
4  
Ethics, AI Safety, and Limitations  
Recognizing the Limitations of ChatGPT  
Ethical and Responsible Use  
Case Studies

## **Introduction to Prompt Engineering**

Course Plan  
3 Days  
Course Overview  
Learn about the basics of Prompt Engineering, and how to effectively communicate with AI.  
What will you learn?  
Prompting  
The Fundamentals of Prompting & Prompt Engineering  
Skills you will gain  
ChatGPT  
Prompt Engineering  
DALL·E 3  
GPT 3.5  
GPT 4

## Course Syllabus

1

What is Prompt Engineering?  
What is a Prompt?  
What is Prompt Engineering?  
Why should we use Prompt Engineering?

2

Understanding LLMs

What are LLMs?

How LLMs Work

Capabilities

Limitations

3

Basic Prompting Techniques

Elements of a good prompt

Chain of Thought

Zero-Shot

Few-Shot

4

Combining techniques and Case Studies

Examples of Prompts

Try-it-yourself

Case Studies

## **Introduction to Prompt Hacking**

Course Plan

3 Days

Course Overview

Learn about the basics of Prompt Hacking, one of the biggest vulnerabilities in Large Language Models (LLMs), and Prompt Defense techniques.

What will you learn?

Prompt Hacking

How to Prompt Inject and Jailbreak Large Language Models.

Skills you will gain

Prompt Injection

Jailbreaking

GPT 3.5

ChatGPT

Course Syllabus

1

Introduction

What is Prompt Hacking?

What is the difference between Prompt Hacking and Jailbreaking?

2

Introduction to Prompt Injection Attacks

What is Prompt Injection?

Potential Threats

How we get Prompt Injected

3

Preventing Injections in LLMs

Not Trusting User Input

Post-prompting and the Sandwich Defense

Few-Shot Prompting Defense

Non-Prompt-based Techniques

4

Other Prompt Hacking Concepts

Prompt Leaking

Jailbreaking

## **Introduction to Generative AI**

Course Plan

3 Days

Course Overview

Learn about the conceptual fundamentals of Generative AI for a business setting.

What will you learn?

GenAIs

How different GenAIs work.

Conceptual Fundamentals

Get deep enough to apply to your prompts.

Skills you will gain

ChatGPT

Prompt Engineering

DALL·E 3

GPT 3.5

GPT 4

Course Syllabus

1

How they work

Learn how GenAIs work.

Learn about different ones.

2

Understand GenAI capabilities

3D Generation

Audio Generation

Video Generation

## **Image Creation with DALL·E 3**

Course Plan

3 Days

Course Overview

Unlock the full potential of DALL·E 3 with advanced techniques for creating high-quality images, including logos, pixel art sprite sheets, and more.

What will you learn?

Image Prompting

Create prompts for image generation.

Applications

Create unique logos and pixel art sprite sheets.

Gen-ID

Obtain consistent image generations.

Skills you will gain

DALL·E 3

Prompt Engineering

ChatGPT

GPT 3.5

GPT 4

Course Syllabus



1

Advanced Prompting Techniques

Prompts for specific image types.

Enhanced detail and specificity in prompts.

2

Creating Logos

Logos for brand identity.

Logo styles and themes.

3

Pixel Art Sprite Sheets

Pixel art for game characters.

Sprite sheets with multiple animations.

4

Gen-ID for Consistency

Gen-ID for series consistency.

Gen-ID in different image scenarios.

## **AI Safety**

Course Plan

3 Days

Course Overview

Learn about the ethical considerations and safety protocols in modern AI applications.

What will you learn?

Safety

Use Generative AI safely in your life and job.

Skills you will gain

ChatGPT

Prompt Engineering

DALL·E 3

GPT 3.5

GPT 4

Course Syllabus

1

Introduction to AI Safety

AI Safety Concerns

Historical Context and Importance

2

Technical Aspects of AI Safety

Safe AI Design Principles

Robustness and Reliability

Avoiding and Mitigating Risks

3

Ethical and Societal Implications

Ethical Frameworks in AI

Societal Impact and Responsibilities

Case Studies in Ethical AI Use

4

Keeping your Enterprise Safe

AI Safety Strategies

AI Governance and Policy

Collaborative Safety Strategies

## **Boost Your Day-to-Day Efficiency With Generative AI**

Course Plan

3 Days

Course Overview

Learn how to get more done and improve your daily efficiency using practical AI skills.

What will you learn?

Efficiency

How to use Generative AI to automate daily tasks.

Skills you will gain

ChatGPT

Prompt Engineering

DALL·E 3

GPT 3.5

GPT 4

Course Syllabus

1

Efficiency Assessment

Calculating total time spent on tasks currently

Assignment

2

Streamline Text-Based Tasks

Text-based tasks

Powerpoints

Presentations

Research

Summarization

3

Streamline Audio & Visual Tasks

Image Generation

Audio Generation

Slidedeck Generation

4

Streamlining Coding Tasks

Debugging Code

Documentation Writing

## **Introduction to LLMs**

Course Plan

3 Days

Course Overview

Learn about the conceptual fundamentals of Large Language Models for a business setting.

What will you learn?

## LLMs

How different LLMs work.

Conceptual Fundamentals

Get deep enough to apply to your prompts.

Skills you will gain

ChatGPT

Prompt Engineering

GPT 3.5

GPT 4

## Course Syllabus

1

How they work

Learn how LLMs work.

Learn about different ones.

2

Understand LLM capabilities

Summarization

Classification

Content Generation

3

Understand how they learn

Fine-Tuning

Pre-Training

RLHF

# Intermediate

## Introduction to Generative AI Agents

Course Plan

1 Hour

Course Overview

Learn about the origin of Generative AI Agents, as well as the 4 different types and how to implement your own.

What will you learn?

Agents

Understand and Build Generative AI Agents

Use Cases

See Generative AI Agents Applied to Real World Tasks

Skills you will gain

Agents

ChatGPT

Prompt Engineering

Prompt Flow

GPT 4

Course Syllabus

1

Introduction to Generative AI Agents

What are Generative AI Agents

How do Generative AI Agents work?

2

What are the four types of Generative AI Agents?

Observation-based Agents

Tool use Agents

Code-based Agents

Retrieval-Augmented Generation Agents

# **Prompt Engineering for Marketing**

Course Plan

3 Days

Course Overview

Unlock the Power of AI to Revolutionize Your Marketing Strategies and Campaigns

What will you learn?

Marketing

How to do marketing more efficiently with Generative AI.

Skills you will gain

ChatGPT

Prompt Engineering

DALL·E 3

GPT 3.5

GPT 4

Course Syllabus

1

Fundamentals of Prompting for Marketing

Applying Prompt Engineering to Marketing

Using AI to Craft Great Web Copy

Optimizing SEO

Generating Brand Aligned Social Media Materials

Introduction to Image Prompting for Marketing

2

Text Content Creation

Web Copy Crafting

Email and Social Media

Interactive Content Techniques

3

Image Prompting

Image Prompting Basics

Brand-aligned Visuals

# Runway ML for Everyone

Course Plan

3 Days

Course Overview

Dive into the world of multimedia creation with our Runway ML course, designed to equip you with the skills to master image, video, and audio tools. This guide will enable beginners to manipulate and generate content using the forefront of generation AI media.

What will you learn?

Video Prompting

The Fundamentals of Image & Video Generation.

Skills you will gain

Prompt Engineering

Runway ML

Video Editor

Course Syllabus

1

Images

Text To Image

Image to Image

Erase and Replace

Image Variation

Backdrop Remix

Expand Image

Infinite Image

Upscale Image

Add color

2

Video

Text To Video

Video to Video

Inpainting

Color Grade

Super Slow Motion  
Green Screen  
Frame Interpolation  
Blur Faces  
Scene Detection  
3  
Audio  
Clean Audio  
Remove Silence  
Transcript  
Subtitles  
Generative Audio

## **Introduction to RAG**

Course Plan

1 Hour

Course Overview

Learn about the basics of RAG, including agentic RAG and vector databases.

What will you learn?

RAG

Understand and Build RAG systems

Use Cases

See RAG systems Applied to Real World Tasks

Skills you will gain

Agents

RAG

Prompt Engineering

Prompt Flow

GPT 4

Course Syllabus



1

Introduction to Retrieval-Augmented Generation

What is RAG

How does RAG work?

2

What is the difference between RAG and Agentic Rag?

Agentic RAG allows the agent to decide what information to pull in.

3

What are vector databases

GenAI integrated databases that allow for better retrieval.

# Advanced

## Advanced Prompt Engineering

Course Plan

3 Days

Course Overview

Learn how to craft Complex and Efficient Prompts for Sophisticated AI Applications.

What will you learn?

Advanced Prompting

The most advanced prompting techniques, from research.

Skills you will gain

ChatGPT

Prompt Engineering

DALL·E 3

GPT 3.5

GPT 4

Course Syllabus

1

In-Context Learning

Basics of Few-Shot Prompting

Factors Influencing Performance in Few-Shot In-Context Learning

Self-Generated In-context Learning Prompting (SG-ICL)

2

Thought Generation Prompting

Basics of Thought Generation Prompting

Chain-of-Thought Prompting (CoT)

Thread-of-Thought Prompting (ThoT)

Contrastive Chain-of-Thought Prompting (CCoT)

Self-Ask Prompting (SA)

Tabular Chain of Thought Prompting (Tab-CoT)

3

Problem Decomposition Prompting

Basics of Problem Decomposition Prompting

Least-to-Most Prompting (LtM)

Plan-and-Solve Prompting (PaS)

Program-of-Thoughts Prompting (PoTh)

4

Self-Criticism Prompting

Basics of Self-Criticism Prompting

Self-Evaluation Prompting (SE)

Self-Refine Prompting (SR)

Chain-of-Verification Prompting (COVE)

System 2 Attention Prompting (S2A)

Rephrase and Respond Prompting (RaR)

Re-reading Prompting (RE2)

## **Advanced Prompt Hacking**

Course Plan

3 Days

Course Overview

Learn about Advanced Prompt Hacking techniques and the vulnerabilities of Large Language Models (LLMs) to exploits like Jailbreak attacks, Prompt Injection attacks, and Cognitive Hacking.

What will you learn?

Prompt Hacking

Bleeding edge prompt hacking techniques, directly from our published research.

Skills you will gain

ChatGPT

Prompt Engineering

DALL·E 3

GPT 3.5

GPT 4

Course Syllabus

1

Fundamentals of Prompt Hacking

Simple Instruction Attacks

Compound Instruction Attacks

Refusal Suppression Attacks

Distractor Instructions Attacks

Project & Quiz

2

Contextual Hacking

Context Switching Attacks

Separator Attacks

Context Termination Attacks

Project & Quiz

3

Cognitive Hacking & Few-Shot

Few-Shot Attacks

Cognitive Hacking Attacks

Virtualization Attacks

Project & Quiz

4

Miscellaneous Attacks

Context Overflow Attacks

Recursive Attacks

Project & Quiz

## **Advanced OpenAI Playground**

Course Plan

3 Days

Course Overview

Learn about the advanced features of the OpenAI Playground and how to use it to build custom GPTs & Chatbots

What will you learn?

OpenAI Playground  
How to OpenAI's prompting IDE.  
Skills you will gain  
ChatGPT  
Prompt Engineering  
DALL·E 3  
GPT 3.5  
GPT 4

## Course Syllabus

1

OpenAI Playground Features  
Overview  
Presets  
Refusal Suppression Attacks  
Revisiting History

2

How to use Chat Mode  
Temperature and Top P  
Maximum Length and Stop Sequences

Frequency and Presence Penalty  
Project & Quiz

3

How to use Assistant Mode  
Creating your First Assistant  
How to Send a Message  
Project & Quiz

4

Assistant Settings & Specifications  
Name, Instructions and Model  
Tools: Functions, Code Interpreter, Retrieval  
Project & Quiz

# Instructors

## **Sander Schulhoff**

Founder & CEO, Learn Prompting

His guide ([learnprompting.org](https://learnprompting.org)) is listed as a recommended resource by OpenAI and Google and has been featured in Forbes as the best course to learn Prompt Engineering. As a researcher, he has authored multiple award-winning papers alongside experts from OpenAI, Microsoft, ScaleAI, the Federal Reserve, HuggingFace, and others.

## **Fady Yanni**

Co-founder & COO at Learn Prompting

Fady Yanni is the Founder & COO of Learn Prompting, the leading Prompt Engineering resource which has taught over 3 million people how to effectively communicate with AI. Previously, he was the Head of Fundraising at the Farama Foundation, the open-source maintainers of every major Reinforcement Learning library, including OpenAI's flagship project, Gym.

## **Camryn Streib**

Game Designer

Alongside her work with Learn Prompting, Camryn is a Game Designer, XR Researcher, and Artist with a Background In Immersive Media Design and Psychology. Through her experience in emerging creative fields, she has published work in Rockstar Games "GTA V", Indie Game Studio "The Verse", and more.

## **Shyamal Anadkat**

Applied AI at OpenAI

Shyamal Anadkat is a Member of the Applied AI Team at OpenAI, the creators of the fastest growing product ever and the most advanced AI model to date, ChatGPT. His work on the Applied AI team focuses on safely integrating OpenAI's technologies into various applications globally.

Shyamal holds a Master's degree in Artificial Intelligence from Duke University.

## **Brian Paul**

Marketing Expert

Brian Paul is an experienced digital marketer and AI artist, using his skillset to grow brands online. Brian has worked with e-commerce brands, non profits, and startups to help them achieve their marketing goals. He is passionate about the intersection of Generative AI and creativity.

## **Camryn Streib**

Game Designer

Alongside her work with Learn Prompting, Camryn is a Game Designer, XR Researcher, and Artist with a Background In Immersive Media Design and Psychology. Through her experience in emerging creative fields, she has published work in Rockstar Games “GTA V”, Indie Game Studio “The Verse”, and more.

## **AJ**

Creative Producer

Alongside his work as a Creative Producer at Learn Prompting, AJ is an XR researcher and developer. He has previously co-founded a startup, Spray, that allowed people to express themselves through augmented reality art.