# Navigating the AI Landscape

## A Sales & Marketing Blueprint

Thierry Moubax

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# Introduction

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7 use cases in Marketing

In today's fast-paced digital world, Artificial Intelligence (AI) isn't just an innovative tool; it's a game-changer for marketers and salespeople. AI allows for a multitude of applications that can drastically improve your marketing and sales initiatives. Just imagine automating content creation, gaining deep customer insights through data analysis, or offering hyper-personalized communication. Use cases in marketing and sales are ever-expanding and include:

1. Content Creation: Generate articles, blogs, and social media posts with AI-driven tools.
2. Research and Innovation: Analyze customer, prospect, and competitor data to uncover new opportunities.
3. Data Visualization: Leverage AI to present complex data in an easily digestible format.
4. Copywriting: Craft persuasive and tailored messages through AI analysis.
5. Imagery and Video: Create or enhance visual assets with AI algorithms.
6. Hyper-Personalized Communication: Send targeted messages based on user behavior and preferences.
7. Chatbots: Automate customer service and generate leads without human intervention.

# 1. Basic Knowledge of AI

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# What is AI?

Artificial Intelligence (AI) is a groundbreaking field where the aim is to create computers capable of performing tasks that mirror human intelligence. The ambition extends to enabling computers to write, create content, solve intricate problems, and even code or draw.





Now, when we say AI "thinks," it's crucial to clarify that this doesn't imply human-like consciousness or awareness. AI mimics facets of human cognition, demonstrating abilities like information processing, decision-making, learning, and problem-solving.

The primary focus of AI is not to replicate subjective human experiences like thoughts or emotions. Instead, it aims to emulate specific aspects of human intelligence like reasoning, language proficiency, creativity, and adaptability. These capabilities enable AI to assist with a wide range of valuable tasks. Even though AI lacks an inner mental life, its power to exhibit intelligent behaviors can complement human abilities and usher in unprecedented possibilities if developed responsibly.

AI systems like ChatGPT exemplify this by engaging in conversations, answering queries, and generating text in ways that are remarkably similar to human interactions. Beneath the surface, however, ChatGPT doesn't "think" in the way humans do. Instead, it relies on intricate statistical models trained on colossal datasets. These models recognize patterns and undergo further refinement through reinforcement learning based on human feedback.

# Learning in AI

It's important to note that AI, including ChatGPT, doesn't "learn" in the human sense. They utilize mathematical algorithms and enormous data sets to simulate aspects of learning—a process known as machine learning. Here's a simplified breakdown:

- - The AI model starts as a blank slate. ✍️
    - It ingests a vast array of examples, like text from the internet. 📚
    - Algorithms sift through these examples to identify patterns, such as which words often appear together. 🔍
    - The model internalizes these patterns as statistical relationships between words. 📊
    - When prompted with new input, it employs these statistics to forecast the most probable output. 🔀

  This form of learning isn't true comprehension but a method of identifying mathematical correlations in data to make educated guesses in new situations. Recognizing this distinction is crucial for responsible AI development and for avoiding the risks that come from anthropomorphizing these systems. 🤖

# 2. Types of AI: An Overview for Marketing and Sales

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Before diving into the specific types of AI technologies that marketers and sales professionals can leverage, it's crucial to understand the broad classifications of AI:

## Narrow or Weak AI:

This type of AI is specialized in performing a specific task or a set of specific tasks. Most AI technologies used in marketing and sales fall under this category, such as predictive AI for customer behavior analysis or generative AI for content creation.

## General AI:

Also known as Artificial General Intelligence (AGI), this AI has the cognitive abilities akin to human intelligence, including understanding, reasoning, and learning from experience. While a fascinating concept, AGI is not yet realized and is not applicable to current marketing or sales tech stacks.

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# Artificial Superintelligence:

This hypothetical form of AI would surpass human intelligence in virtually every aspect. While it's a topic of much debate and speculation, it is currently the stuff of science fiction and not relevant for practical marketing or sales applications.

Now, with that foundation, let's explore the more specific types of AI relevant to your field:

# Generative AI:

Generative AI includes models like GPT-3.5 and Claude from Anthropic. These fit primarily under the umbrella of Narrow AI and are useful for tasks like content creation and personalized messaging.

# Predictive AI:

Also falling under Narrow AI, predictive technologies forecast future outcomes based on existing data, valuable for understanding consumer behavior and fine-tuning marketing strategies.

# Classifying AI:

This type sorts information into categories, such as sorting customer queries or prioritizing sales leads, and is another example of Narrow AI in practical application.

# Special Mention: AI for Ads

Both Google and Meta use AI algorithms for their advertising platforms, further solidifying the importance of Narrow AI in marketing and sales.3. Large Language Models

# 4. What are Large Language Models?

What are Large Language Models?Large Language Models such as ChatGPT and its variations are specialized AI systems designed to generate text that mimics human-like conversation and writing. Developed by tech giants like OpenAI, these models are incredibly versatile, with applications ranging from writing entire articles to answering user queries in a chat interface. In essence, they can converse, answer questions, and create content in remarkably human-like ways, all thanks to their training on extensive datasets.



## How Do They Work?

Contrary to popular belief, Large Language Models don't "think" or "learn" in the way humans do. They function based on complex statistical models that analyze vast volumes of data to recognize patterns. Over time, these models are refined using machine learning algorithms and reinforcement learning from human feedback. They work by predicting the next word in a sentence, a process honed through their training on immense datasets.

For Example:Let's consider the incomplete sentence, "I am catching a..."

- Without context, the highest probability is "I am catching a plane"
- If the prior context involves playing soccer, the model may complete it as "I am catching a ball."
- If the context is about running in the street, it might say, "I am catching a taxi."

- If the context includes feeling ill, the model may suggest, "I am catching a cold."

The more contextual information these Large Language Models receive, the more accurate and contextually relevant their responses become.

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# Main Players in the Field

- **OpenAI:** Pioneers in this space, they developed advanced AI systems like GPT-3.5 and GPT-4. OpenAI's technology also powers Bing's



- Google: Known for their versatile AI applications through DeepMind, they also have Bard, powered now by Gemini. which is their answer to ChatGPT. There will be 3 versions Ultra / Pro / Nano. Ultra should be the chatGPT 4 competitor.



- Meta: Besides using AI for content moderation and suggestions, they have their proprietary ad algorithms powered by AI. They've also released an open-source Large Language Model called LLaMa.



Anthropic: They have introduced Claude (v2) , another large language model, adding more diversity to the range of available options in the market.
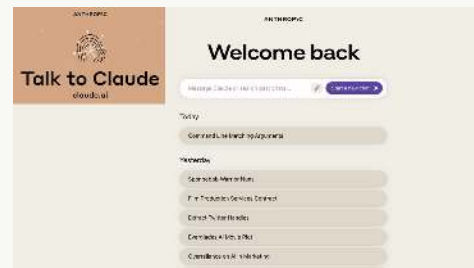
# 5. Introducing ChatGPT

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**What is ChatGPT?**

ChatGPT is a specific instance of a Large Language Model developed by OpenAI. It stands for Generative Pre-trained Transformer for Chat. While similar to other Large Language Models, ChatGPT distinguishes itself by being finely-tuned for conversational contexts. This makes it exceptionally useful for a variety of applications where human-like text generation or interaction is beneficial.

| | Wikipedia | Books | Journals | Reddit links | CC | Other | Total |
|---|---|---|---|---|---|---|---|
| GPT-1 | | 4.6 | | | | | 4.6 |
| GPT-2 | | | | 40 | | | 40 |
| GPT-3 | 11.4 | 21 | 101 | 50 | 570 | | 753 |
| The Pile v1 | 6 | 118 | 244 | 63 | 227 | 167 | 825 |
| Megatron-11B | 11.4 | 4.6 | | 38 | 107 | | 161 |
| MT-NLG | 6.4 | 118 | 77 | 63 | 983 | 127 | 1374 |
| Gopher | 12.5 | 2100 | 164.4 | | 3450 | 4823 | 10550 |

**Table 1. Summary of Major Dataset Sizes.** Shown in GB. Disclosed in **bold**. Determined in *italics*. Raw training dataset sizes only.

# How Does ChatGPT Fit Into Marketing and Sales?

- Content Creation: One of the most challenging aspects of marketing is generating engaging and relevant content. ChatGPT can help marketers by automating the writing process for blog posts, social media updates, and even email campaigns.

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- Data Analysis: Sales teams can use ChatGPT to summarize large sets of customer feedback or sales data, helping them understand consumer behavior and market trends more easily.

- Personalization: ChatGPT can help marketers craft personalized messages and campaigns. By analyzing customer data and previous interactions, it can suggest ways to approach individual customers, increasing the chances of conversion.

- Customer Support: ChatGPT can be employed as a chatbot for handling basic customer queries. While it can't replace human touch entirely, it can significantly reduce the workload on customer support teams by answering frequent and basic questions.

- SEO: Given a set of keywords, ChatGPT can generate SEO-friendly content, aiding in organic reach and better search engine rankings.

Why Should Marketers and Sales Teams Care?Embracing ChatGPT can lead to more efficient workflows, freeing professionals to focus on strategy and relationship-building. Plus, its ability to generate human-like text can enrich customer interactions, improve engagement rates, and ultimately, enhance the bottom line.

# 6. Quick Comparison: ChatGPT Free vs ChatGPT Plus

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If you are not sure whether you should upgrade from the Free Version to the Plus, here's a concise breakdown of their main differences to help you decide.

# Core Features: ChatGPT Free

- - GPT-3.5 Model: Good for basic conversations and tasks, but limited in advanced capabilities.
  - General Access: Open to all but may not be available during high demand.

# Premium Perks: ChatGPT Plus

- GPT-4 Model: Offers advanced problem-solving and multilingual skills.
- Priority Access: Always accessible, even during high-traffic periods.
- Faster Response Times: Get your answers quicker.
- Advanced Data Analysis: Handles complex queries and can sift through data effortlessly.
- Enhanced Coding Capabilities: From simple scripts to more complex algorithms.
- Plugins: Add features like a Code Interpreter for specialized tasks.
- Future Multimodal Options: Text is just the start; visual and auditory interactions are on the horizon.

ChatGPT Plus is hands down the best €20/ month I've ever spent. It's like having an infallible trainee who's always on the ball, especially with its advanced data analysis and coding capabilities.

# Conclusion

ChatGPT Plus is the superior choice for those needing advanced functionalities and reliability. The Free version will do if you're a casual user. However, if you want a top-notch experience, Plus is the way to go.

# 7.Writing Your First Prompts: A Beginner's Guide

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## So, What is this "Prompt Engineering" Thing?

Prompt engineering sounds fancy, but it's really just about asking ChatGPT questions in a way that helps you get the answers you want! Think of it like teaching a very young child to talk—you have to be clear and simple.

# Cool Tips for Talking to ChatGPT

### 📝 Keep It Simple, Silly! (K.I.S.S.)

Don't overthink it! Ask simple questions to get simple answers
.👎 Bad Example: "Can you elucidate the chronology of the Punic Wars?"
👍 Good Example: "Tell me about the Punic Wars."

### 🌟 Context is Your Friend

A little context goes a long way. It's like giving clues to a detective!
    Bad Example: "Tell me about Paris."
👍 Good Example: "Tell me what I can do on a one-day trip to Paris."

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### ❓ Make It a Question

If you want specific info, make your prompt a question. It's like asking for a special order at a restaurant!
👎 Bad Example: "Elephants in Africa."
👍 Good Example: "What do elephants in Africa eat?"

### 🔗 Connect the Dots with Sequential Prompts

Sometimes one question leads to another. Feel free to ask follow-ups!
Bad Example: "Tell me everything about baking."
👍 Good Example: "What are the basic ingredients for baking a cake?" (Then, "How do I mix them?")

### 🔬 Experiment and Play Around

Try, try, and try again. Don't worry if you don't get it right the first time!
👍 Good Example: Start with "Tell me a joke," then tweak it to "Tell me a science joke" if you want something more specific.

## 📏 Mind the Length

ChatGPT can't write a novel for you in one go. Keep your conversation shorter than a really long Twitter thread!

## ✏️ Spell Out What You Want

If you want your answer in bullet points, just ask!
👍 Good Example: "List the benefits of eating vegetables."
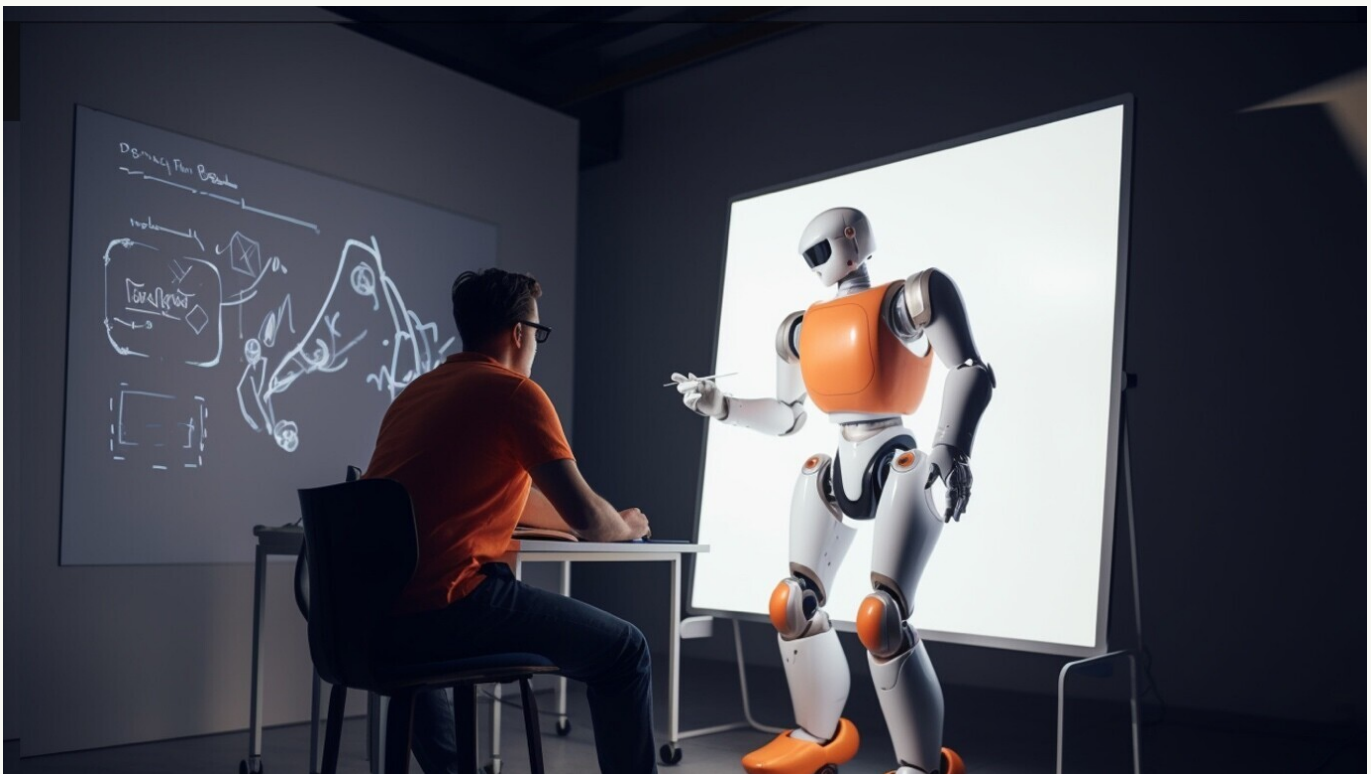
# 8. Language Considerations

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Ah, the big debate! The words you use matter just as much as the questions you ask. Currently, simple and concise English is the go-to language for getting the most out of Large Language Models like ChatGPT, primarily because these models have been trained on vast amounts of English text.

But what if English isn't your first language? Don't worry, the latest versions of these models are getting better at understanding a wide range of major languages. As the field progresses, rest assured, we'll keep you in the loop about the best linguistic practices for your chatbot interrogations!

Just like learning to speak a new language, mastering the language of AI prompts is a skill that improves with practice. The more you interact with these models, the more "fluent" you become in this unique form of dialogue. Think of it as learning to "speak AI," if you will.

Remember, the art of communication isn't just about what you say; it's also about how you say it. This applies just as much to talking with AI as it does to human interactions. The sky's the limit in what you can achieve through effective communication with AI, bounded only by your imagination and your prompt-crafting skills. So, keep refining your technique, and you'll soon be an AI conversationalist par excellence!

# 9. Navigating the Limitations of AI

## The Reality Check

Before we get too excited about our AI-powered future, let's pause and get real for a moment. Large language models like GPT-3 and even the newer GPT-4 are amazing at generating human-like text. But let's not forget—they have zero understanding of what they're saying. Yep, you read that right: zero, zilch, nada!



Hallucination

## Challenges with LLMs

You may have heard horror stories about LLMs spewing nonsense or even misinformation. That's because these models generate responses based on patterns in the data they've been trained on —they can't fact-check or understand the implications of what they're saying. Imagine a parrot that's been trained to talk; it mimics human speech but doesn't understand the words it's saying.

## Source Citation

Be wary when an LLM cites sources or "facts." They aren't connected to the internet and can't verify their information. Sometimes they make up convincing but false references. So, always, always take those so-called "facts" with a big grain of salt.


A photo realistic image of a manager

## Battling Bias

Bias can be another hiccup. Although safeguards are in place, LLMs can still output biased or inappropriate comments. So if you're integrating them into applications or research, tread carefully.

As an image speaks more than a 1000 words, have a look at the results of some prompting in Midjourney to appreciate the "bias" of the training.


A photo realistic image of a caring/ HR Manager


"white man robbing"

## Creative but Deceptive

LLMs are pretty good at making stuff up when they don't know the answer. We call these "hallucinations"—false but convincing statements. Always double-check what you're told, especially if it sounds too good to be true.

## Mathematical Muddles

A heads-up for math enthusiasts: LLMs and complicated math equations don't mix well. They can even stumble over basic problems. But don't worry, there are workarounds!

## Ways to Work Around the Limits 🛠️

- Internet Connection: If you need real-time or verified information, consider using search-augmented LLMs like Bing or Google's Bard.
- Token Limits: Running into word limits? Break down your input into smaller pieces or use chaining techniques to extend the conversation.
- Third-Party Integration: Want the LLM to interact with your email or other services? Special plugins and APIs can make this happen.

Prompt Optimization: Reduce the risk of hallucinations by crafting more precise and leading prompts.

# 10. The ACTIFF Method: A Structured Approach to Masterful Prompting

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## A: Act as a Role


1. ROLE : ACT AS ...

Assign a role to the LLM to guide its responses effectively. This role could be anything from a 'Financial Advisor' to a 'Fitness Coach.' For instance, if you designate the role as a 'Nutritionist,' a prompt like, "As a Nutritionist, can you offer a meal plan for a 40-year-old diabetic?" would yield focused and specific dietary advice.

## C: Context


2. CONTEXT

Contextualize the scenario in which you're asking the question. Providing the background or situational context allows for more tailored outputs. For example, saying, "In the context of a global pandemic, as a Financial Advisor, what investment strategies would you suggest?" helps the LLM adapt its financial advice to unique circumstances like a pandemic.

## T: Task


3. TASK

Clearly state the responsibility or job you expect the LLM to perform. Whether you need to answer questions about a particular topic or generate a list of items, being explicit about the task is vital. For example, "Write a haiku about the fall season" specifies what poetic form and subject the LLM should focus on.

## I: Instructions



4. Clear INSTRUCTIONS

Detail the steps or procedures you wish the LLM to follow for alignment with your expectations. In an educational setting, you might say, "Create a lesson plan for teaching the American Civil War to high school students, making sure to include multimedia resources for each section." These specific instructions will guide the LLM's output more effectively.

## F: Follow Up

Engage in back-and-forth with the LLM to refine its initial responses. For example, if the initial advice was general, a follow-up like, "Your investment strategies are useful, but could you provide more detail on diversification?" would elicit a more specific and detailed answer.

## F: Finetune

Finally, assess the LLM's output for accuracy and completeness. You can ask it to rate its own responses, such as "Can you rate the quality of your last response on a scale of 1-10?" This self-assessment enables you to gauge the LLM's performance and fine-tune future interactions.



Follow up- Feedback – Fine tune

By incorporating the ACTIFF method into their toolkit, our students are trained to craft masterful prompts that elicit the most accurate, relevant, and beneficial responses from advanced language models.
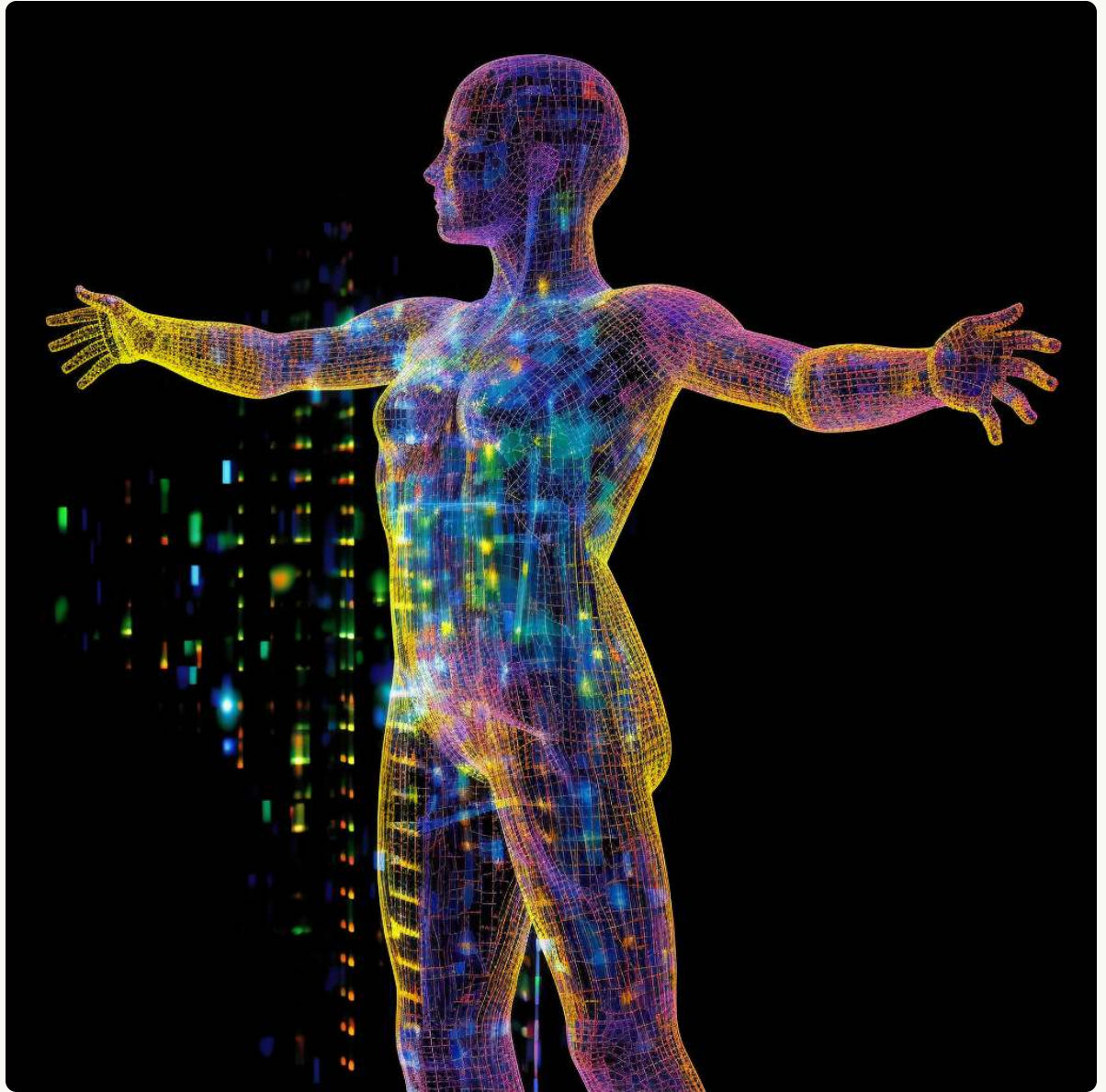
# 11. Text-to-Image Diffusion Models

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# Image Generators: Your Digital Palette 🎨

You don't need to be Picasso to create art; you just need the right tools! Below are some popular options for text-to-image generation:



## Midjourney
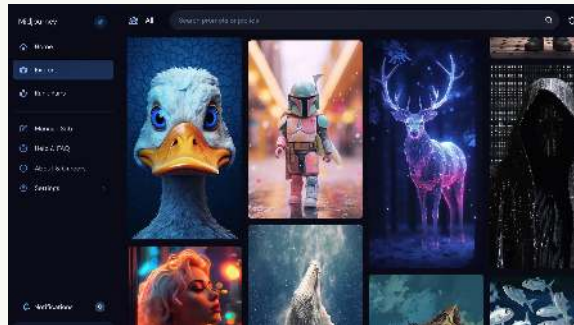
Cost: no free version more available. Subscriptions at $8, $24, or $48 per month
Features: Known for generating creative visuals and supporting long-form text prompts, it's your go-to if you're looking for intricate and high-quality images.ALready at version6 .
How to Use: NOt so customer friendly, at the time of writing it is only available through a Discord bot, but a website should be available soon. The setup might be a bit complex, but it's worth it!
Note: This is my personal favorite, although it currently lacks an API.

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# Leonardo
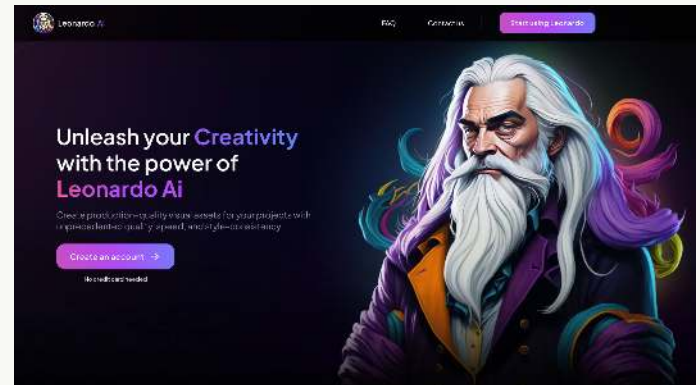


Cost: Free option available, subscriptions at $12, $30, or $60 per monthFeatures: It offers a variety of image generation models and allows for extensive settings customization.How to Use: Fairly user-friendly and a great pick if you like to tweak settings to get just the right image.

# DALL-E 3
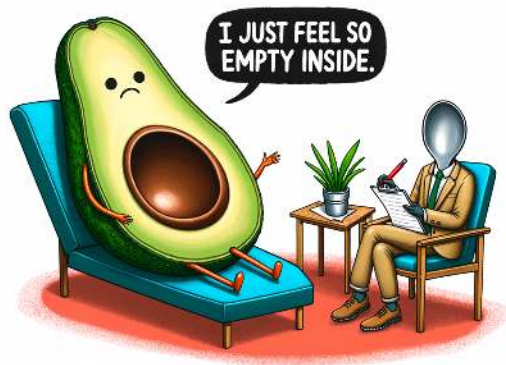


included in the Plus version of ChatGPT.

Also accessible via bing https://www.bing.com/images/create/

Features: The model that best reflects the prompts. It is good at generating realistic images from text, but still not at the quality of Midjourney. It also offers fewer settings and handles only short prompts.

How to Use: Ideal for quick, straightforward projects that don't require a lot of customization.

However you can always build upon the existing image and adapt it in that way

Note : It is the best tool to **start** your creative journey!

# Stable Diffusion Online 🌈



Cost: FreeFeatures: An accessible but lower-quality alternative to the paid options.How to Use: Best for those dipping their toes into the text-to-image world without any financial commitment.



So, these are the key players in the text-to-image arena. Whether you're a novice exploring this fascinating field or an enthusiast looking to level up, there's something here for you!

If you are interested in learning more or AI enable your Marketing and sales , at AI Compass we help Marketers and Sales to leverage AI in various ways.
Here our basic service offering :

| | Inspiration | • Keynote | Show your team or colleagues the potential of AI and a broad understanding of the AI landscape | **WHY** |
|---|---|---|---|---|
| | Discovery | • Consulting<br>• Workshops | An expert analyzes your current Marketing and Sales processes to identify areas for AI integration. Helps with your AI Strategy | **WHAT** |
| | Educational | • In-Company Training<br>• Online Courses<br>• Workshops<br>• Coaching | This package ensures the seamless integration of AI into daily Marketing and Sales Processes. | **HOW** |

**For more info please visit: www.aicompass.ai**

**or contact : Thierry@aicompass.ai**

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