

COURSE GLOSSARY

Understanding ChatGPT

- **ChatGPT:** A conversational AI model developed by OpenAI that uses large language models to generate human-like responses to text prompts.
- **Generative AI:** A branch of artificial intelligence focused on creating new content such as text, images, or audio, based on learned patterns.
- **Large Language Model (LLM):** An AI system trained on massive amounts of text data to understand and generate natural language.
- **Prompt:** The text input provided to ChatGPT that guides its response.
- **Prompt Engineering:** The practice of crafting effective prompts to steer ChatGPT toward useful and accurate outputs.
- **Zero-shot Prompting:** Asking a model to perform a task without providing any examples.
- **One-shot Prompting:** Providing a single example in the prompt to guide the model's response.
- **Few-shot Prompting:** Providing multiple examples in the prompt to improve the model's accuracy and relevance.
- **System Role:** A type of message in the ChatGPT API that defines the model's behavior, such as its tone, role, or constraints.
- **User Role:** A type of message in the ChatGPT API representing the input from the end-user.
- **Assistant Role:** A type of message in the ChatGPT API that allows predefined responses or examples to guide the model's behavior.
- **Limitations of ChatGPT:** Constraints such as lack of real-time knowledge, potential biases, and occasional incorrect or nonsensical outputs.
- **Ownership and Privacy:** Legal and ethical considerations around data use, copyright, and intellectual property when generating outputs with ChatGPT.
- **Adoption in Workflows:** The integration of ChatGPT into tasks like customer service, content creation, coding, or data analysis.
- **Terms of Use:** The policies from OpenAI that govern how ChatGPT can be used, including restrictions on data and content ownership.
- **Scaling LLMs:** The process of increasing the size of training data, model parameters, and computing resources to improve performance.
- **Bias in LLMs:** Systematic tendencies in model outputs caused by skewed or incomplete training data.
- **Use Cases:** Practical applications of ChatGPT across industries, such as marketing, healthcare, and education.
- **Effective Prompting:** Designing inputs that are specific, contextual, and structured to achieve better model responses.
- **Advancements in Generative AI:** Innovations in training, model architectures, and multimodal AI that extend capabilities to images, audio, and video.