

Course Glossary

Welcome! This alphabetized glossary contains the names and definitions of specialized terms used throughout the course. Identifying and describing these terms is essential to help you comprehend the concepts covered in the course effectively.

Term	Definition
Application programming interface (API) integration	The process of connecting different software systems or applications through their APIs to enable them to work together and share data or functionality.
Bias mitigation	A technique in which text prompts provide explicit instructions to generate neutral responses.
Chain-of-Thought	An approach to prompt engineering that involves breaking down a complex task into smaller and easier ones through a sequence of more straightforward prompts.
ChatGPT	A language model designed to provide detailed responses to natural language input.
Claude	A powerful and flexible AI chatbot to help you with your tasks.
Comparison prompting	A technique where the model is asked to evaluate multiple outputs side-by-side to determine which one is better or more accurate.
Contextual guidance	A technique using which text prompts provide specific instructions to the large language models (LLMs) to generate relevant output.
Cross-modal understanding	The ability of AI models to connect and reason across different types of input, like using information from an image to answer a text-based question.
DALL-E	Text-to-image model that generates digital images from natural language descriptions.
Domain expertise	A technique wherein text prompts can use domain-specific terminology to generate content in specialized fields like medicine, law, or engineering.
Dust	A prompt engineering tool that provides a web user interface for writing prompts and chaining them together.
Explainability	Refers to the degree to which a user can understand and interpret the model's decision-making process and the reasons behind its generated outputs.
Few-shot prompting	A method that enables context learning, wherein demonstrations are provided in the prompt to steer the model to better performance.
Framing	A technique by which text prompts guide LLMs to generate responses within the required boundaries.
Generative AI	A type of artificial intelligence that can create new content, such as text, images, audio, and video.
Generative AI models	Models that can understand the context of input content to generate new content. Used for automated content creation and interactive communication.
Generative pre-trained transformers (GPT)	A family of neural networks that use transformer architecture to create human-like text or content as output.
IBM watsonx.ai	A platform of integrated tools to train, tune, deploy, and manage foundation models easily.
Input data	Any piece of information provided as part of the prompt.
Integrated Development Environment (IDE)	A software tool for crafting and executing prompts that engage with language models.
Interview pattern approach	A prompt engineering strategy that involves designing prompts by simulating a conversation or interacting in the style of an interview.
LangChain	A Python library that provides functionalities for building and chaining prompts.
Large language models (LLMs)	Deep learning models trained on massive amounts of text data to perform tasks such as text generation, summarization, translation, and sentiment analysis.
Midjourney	A text-to-image model that generates images from natural language requests.
Multi-modal models	AI models capable of processing and generating multiple types of data such as text, images, audio, and video.
Multi-modal prompts	Prompts that include multiple forms of input, such as text, images, or audio, to guide AI models.
Naive prompting	Asking queries from the model in the simplest possible manner.
Natural language processing (NLP)	A branch of artificial intelligence that enables computers to understand, manipulate, and generate human language.
OpenAI Playground	A web-based tool that helps to experiment and test prompts with various models of OpenAI, such as GPT.
Output indicator	Benchmarks for assessing the attributes of the output generated by the model.
Play-off method	A prompting technique where multiple outputs are generated for the same input, then compared or evaluated to select or refine the best response.
Prompt	Instructions or questions given to a generative AI model to generate new content.
Prompt engineering	The process of designing effective prompts to generate better and desired responses.
Prompt lab	A tool that enables users to experiment with prompts based on different foundation models and build prompts based on their needs.
PromptBase	A marketplace for selling and buying prompts.
PromptPerfect	A tool used to optimize prompts for different LLMs or text-to-image models.
Role-play/Persona pattern	A format or structure for constructing prompts that involve the perspective of a character or persona.
Scale AI	A technology company that specializes in data labeling and data annotation services.
Self-reflection prompting	A technique where the model is instructed to review or critique its own outputs to improve accuracy or creativity. Often paired with the play-off method.
Stable Diffusion	A text-to-image model that generates detailed images based on text descriptions.
StableLM	An open-source language model based on a dataset that contains trillions of tokens of content.
Tree-of-Thought	An approach to prompt engineering that involves hierarchically structuring a prompt or query to specify the desired line of reasoning.
User feedback loop	A technique wherein users provide feedback to text prompts and iteratively refine them based on the response generated by the LLM.
Zero-shot prompting	A method where generative AI models generate meaningful responses to prompts without needing prior training on those specific prompts.



Skills Network