



SHAPE YOUR OWN FUTURE

# AI Tutorial

## Definitions

(Generative Pre-trained Transformer) GPT stands for "Generative Pre-trained Transformer". It is a class of language processing models based on the Transformer architecture. GPT models are first pre-trained on large text datasets to learn the structure of the language. They can then be fine-tuned for a variety of tasks, including text generation, translation, summarization, and more. The GPT models generate text by predicting the probability of the next word based on the previous words in an input. This allows them to produce coherent and often convincing passages of text based on the learned context.

An algorithm is a precisely defined, step-by-step set of instructions for solving a problem or performing a task. In computer science, algorithms are the basis for how software and systems work by specifying how data should be processed, analyzed, transformed, or sorted to achieve a specific goal. Algorithms can be represented in pseudocode, flow charts or directly in programming languages and form the logical basis for programming.

Machine Learning Machine learning (ML) is a subfield of artificial intelligence (AI) that allows computers to learn and improve from data without being explicitly programmed for specific tasks. By training with data, machine learning models can recognize patterns and relationships that then allow them to make predictions, make decisions, or perform tasks based on new, unknown data. There are several types of machine learning, including supervised learning, unsupervised learning, and reinforcement learning, each of which uses different approaches and techniques for learning from data.

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