Your A.I. Dictionary

GENERATIVE A.I.

Generative Artificial Intelligence refers to A.I. systems that can generate new content, such as images, text, or other data.

STABLE DIFFUSION MODEL

The Stable Diffusion Model is a technique used in the context of generative A.I. and deep learning. Specifically, it is employed to convert textual descriptions of scenarios into corresponding images.

DEEP LEARNING

Deep learning is a subset of machine learning, a type of A.I. that involves neural networks with multiple layers (deep neural networks). It is particularly effective in tasks such as image and speech recognition.

OPEN SOURCE

"Open source" means that the source code of software is freely available to the public. Users can view, modify, and distribute the code, fostering collaboration and transparency.

HUGGING FACE PLATFORM

A platform that facilitates the sharing and use of A.I. models. It allows developers to upload, distribute, and access models through APIs.

FINE-TUNING

Fine-tuning in the context of A.I. refers to adjusting a general-purpose model to perform a specific task or produce specific outputs. It is a form of transfer learning.

API (APPLICATION PROGRAMMING INTERFACE)

An API allows one software application to interact with another over the Internet. In this context, APIs are used to query the generative models developed by stability.ai and OpenAI.

LARGE LANGUAGE MODELS

A category of artificial intelligence (A.I.) models that are designed to understand and generate human-like language on a massive scale. These models are typically trained on vast amounts of text data and have the ability to process and generate text in a way that reflects natural language patterns.

LICENSE POLICY

License policy in A.I. refers to the terms governing the use of A.I. models or software, outlining permissions and restrictions. Open-source licenses allow users to freely view, modify, and distribute A.I. code, fostering collaboration and transparency.

GPU (GRAPHICS PROCESSING UNIT)

A specialized electronic circuit that accelerates the processing of images and videos. GPUs are commonly used in machine learning tasks for their parallel processing capabilities.

GITHUB

A platform for version control and collaborative development of software. It is commonly used for hosting and sharing code repositories.

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JUPYTER NOTEBOOK

An interactive document that can contain live code, equations, visualizations, and narrative text.

GOOGLE COLAB

A free, cloud-based service provided by Google that allows users to run Jupyter notebooks with access to GPU resources.

SHINY

An R package that enables the creation of interactive web applications directly from R. It streamlines the process of building web interfaces.

RESPONSIVE

In the context of web applications, responsive means that the application remains functional and accessible even when multiple users are using it simultaneously.

SUBPROCESS

A subprocess is a separately running process within a larger program. In this context, it helps maintaining responsiveness in the web application while waiting for API responses.

CLONING (REPOSITORY)

Creating a copy of a code repository from a source, usually from a version control system like Git.

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