AI Terminology Guide

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Advanced Prompt Formula: Specific prompt components to yield the best overall AI response. Recommended Formula: Task, Instruction, Context, Reasons, Clarification, and Refinement.

AI Ethics: ethical/moral issues with the use and implementation of AI and its effects on people/society.

AI Agent: autonomous AI capable of learning & performing multistep tasks on your behalf.

AI Literacy: set of competencies enabling individuals to critically evaluate AI, communicate/collaborate with AI, and use AI. This is best structured as: Awareness, Capability, Knowledge, and Critical Thinking.

Artificial Intelligence: a field of study and specific technology dealing with the enhancement of computers to mimic human processes to interact, complete tasks, answer questions, and create**.**

Deepfake: AI Image/recording misrepresenting an event or someone: doing or saying something that was not actually done or said by them. Use the TRAP (Think Critically, Realistic/Reliable/Reputable, Accurate/Authority, and Purpose/Propaganda) test to avoid this.

Foundational AI Model: unique, original AI models created by groups, companies, or organizations.

General AI: hypothetical AI that could perform any intellectual task that the smartest human could.

Generative AI: A branch of artificial intelligence that uses aspects of predictive analyses, new data analysis, and more, to provide interaction, information (answer questions), and/or create entirely new content: text, images, music, video, & code. This AI can respond in a human-like way via multimodalities.

GPT: Generative Pretrained Transformers, LLMs based on a transformer deep learning architecture.

Hallucinations: an AI might present incorrect information. The AI system can even express this incorrect information confidently, with falsely created *(hallucinated)* facts/citations.

LLMs: Large Language Models, AI that uses deep learning and large data sets to comprehend, summarize, predict and create new content.

Multimodal AI: an AI that is able to intake and/or create content via text, audio, images and/or video.

Neural Networks: a machine learning program/model, that makes pattern-based calculated decisions similar to the way a human brain works. This is done by using processes mimicking biological neurons.

NLP: Natural Language Processing, enables AI to comprehend, create, and manipulate human language.

Open Source AI: an AI system/model that is freely available to use, modify, study, and share, but would be hosted/maintained by the user or other organization.

Overreliance: Excessive trusting of AI leading to not catching mistakes and losing or not gaining skills.

Prompt: method of interacting with the AI using conversational text, audio, images, or video.

Prompt Engineering: process of creating effective questions/tasks to enable AI models to generate quality responses based on effective inputs.

Super AI: hypothetical AI that could perform any intellectual task beyond the smartest human's ability.

Tokens: a component of a larger data set, smaller than and can represent words, characters, or phrases.

Vibe Coding: the process of using regular language to explain what you want the computer program, app, or game to do, and then having an AI create the actual computer code.