

# AI Top 20 Industry Definitions

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## 1. AI — Artificial Intelligence

Systems that perform tasks normally requiring human intelligence (reasoning, learning, pattern recognition).

## 2. ML — Machine Learning

A subset of AI: algorithms learn patterns from data to make predictions or decisions.

## 3. DL — Deep Learning

A type of ML using multi-layer neural networks, enabling high-accuracy perception and generative models.

## 4. LLM — Large Language Model

AI models trained on massive text corpora; can understand, generate, and reason with human language (e.g., GPT, Claude, Gemini).

## 5. NLP — Natural Language Processing

AI techniques for understanding and generating human language.

## 6. GPU — Graphics Processing Unit

Specialized chips used for AI training and inference due to parallel computing capability.

## 7. TPU — Tensor Processing Unit

Google's custom AI accelerator hardware designed for training and running ML models.

## 8. API — Application Programming Interface

Allows software to integrate with or call AI models and services.

## 9. RL — Reinforcement Learning

Model learns by trial and error to maximise a reward signal; used in gaming, robotics, optimisation.

## 10. AGI — Artificial General Intelligence

Hypothetical AI system capable of performing any intellectual task a human can.

## 11. CNN — Convolutional Neural Network

Deep learning architecture used for image recognition, video, and computer vision.

## 12. RNN — Recurrent Neural Network

Architecture used for sequential data (speech, time series).

## 13. GAN — Generative Adversarial Network

Two neural networks compete to generate realistic synthetic data (images, videos).

## 14. VAE — Variational Autoencoder

Model used for generative tasks, data compression, anomaly detection.

## 15. TTS — Text-to-Speech

AI that converts written text into spoken audio.

## 16. MLOps — Machine Learning Operations

Tools & processes for deploying, monitoring, and maintaining AI models in production.

## 17. ETL — Extract, Transform, Load

Data engineering workflow to prepare data for training and analytics.

## 18. API — Application Programming Interface

Way AI services are accessed programmatically.

## 19. SaaS — Software as a Service

Cloud-delivered software subscription model (used heavily in AI delivery).

## 20. RAG — Retrieval-Augmented Generation

