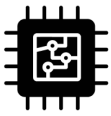
Top 20 AI Concepts You Should Know

Top 20 AI Concepts Every Developer Should Know

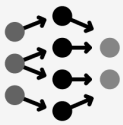
ByteByteGo

1 Machine Learning



Core algorithms, statistics, and model training techniques

2 Deep Learning



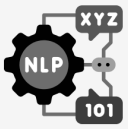
Hierarchical neural networks learning complex representations automatically

3 Neural Networks



Layered architectures efficiently model non-linear relationships accurately

4 NLP



Techniques to process and understand natural language text

5 Computer Vision



Algorithms interpreting and analyzing visual data effectively

6 Reinforcement Learning



Distributes traffic across multiple servers for reliability

7 Generative Models



Creating new data samples using learned distributions

8 LLM



Generates human-like text using massive pre-training data

9 Transformers



Self-attention-based architecture powering modern AI models

10 Feature Engineering



Designing informative features significantly improving model performance

11 Supervised Learning



Learns useful representations without labeled data

12 Bayesian Learning



Incorporates uncertainty using probabilistic model approaches

13 Prompt Engineering



Crafting effective inputs to guide generative model outputs

14 AI Agents



Autonomous systems that perceive, decide, and act

15 Fine Tuning Models



Customizes pre-trained models for domain-specific tasks

16 Multimodal Models



Processes and generates across multiple data types

17 Embeddings



Transforms input into machine-readable vector formats

18 Vector Search



Finds similar items using dense vector embeddings

19 Model Evaluation



Assessing predictive performance using validation techniques

20 AI Infrastructure



Deploying scalable systems to support AI operations

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