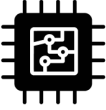

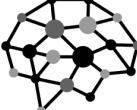



















Top 20 AI Concepts You Should Know

Top 20 AI Concepts Every Developer Should Know

| | | | |
|---|--|--|---|
| <p>1 Machine Learning</p>  <p>Core algorithms, statistics, and model training techniques</p> | <p>2 Deep Learning</p>  <p>Hierarchical neural networks learning complex representations automatically</p> | <p>3 Neural Networks</p>  <p>Layered architectures efficiently model non-linear relationships accurately</p> | <p>4 NLP</p>  <p>Techniques to process and understand natural language text</p> |
| <p>5 Computer Vision</p>  <p>Algorithms interpreting and analyzing visual data effectively</p> | <p>6 Reinforcement Learning</p>  <p>Distributes traffic across multiple servers for reliability</p> | <p>7 Generative Models</p>  <p>Creating new data samples using learned distributions</p> | <p>8 LLM</p>  <p>Generates human-like text using massive pre-training data</p> |
| <p>9 Transformers</p>  <p>Self-attention-based architecture powering modern AI models</p> | <p>10 Feature Engineering</p>  <p>Designing informative features significantly improving model performance</p> | <p>11 Supervised Learning</p>  <p>Learns useful representations without labeled data</p> | <p>12 Bayesian Learning</p>  <p>Incorporates uncertainty using probabilistic model approaches</p> |
| <p>13 Prompt Engineering</p>  <p>Crafting effective inputs to guide generative model outputs</p> | <p>14 AI Agents</p>  <p>Autonomous systems that perceive, decide, and act</p> | <p>15 Fine Tuning Models</p>  <p>Customizes pre-trained models for domain-specific tasks</p> | <p>16 Multimodal Models</p>  <p>Processes and generates across multiple data types</p> |
| <p>17 Embeddings</p>  <p>Transforms input into machine-readable vector formats</p> | <p>18 Vector Search</p>  <p>Finds similar items using dense vector embeddings</p> | <p>19 Model Evaluation</p>  <p>Assessing predictive performance using validation techniques</p> | <p>20 AI Infrastructure</p>  <p>Deploying scalable systems to support AI operations</p> |

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