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Machine Learning and AI: Applications, Legal and Ethical Issues and Practical Guidance for Prosecution

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What is Artificial Intelligence?

A 5min primer.



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Progression of AI Architecture

1. Artificial Intelligence

Dartmouth workshop and competitive game playing algorithms. [1]

1956

1974

4. Supervised Machine Learning

Improved supervised learning: SVM classifier, regression, clustering [3]

1980s

1990s

6. Deep Neural Networks

Hidden layers, higher complexity, resource needs and performance [5, 6]

early 2000s

late 2000s

8. Trust Experiments

Explainability, deep fakes, and perception interrogation

2010s

today

2. AI winter

Lack of progress, defunding

3. Neural Networks

Convolutional neural networks for early computer vision [2]

5. Unsupervised Machine Learning

Embedding, dimensionality reduction, feature discovery [4]

7. Adversarial Networks

Two DNNs discover and exploit weakness for best model [7, 8]

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