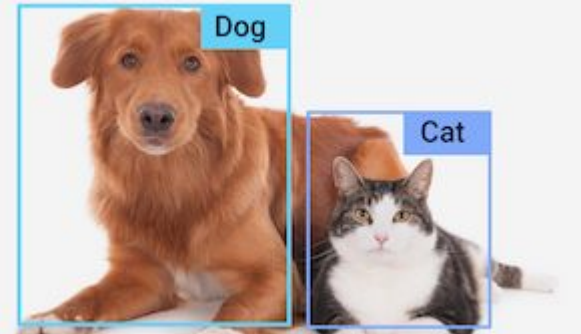
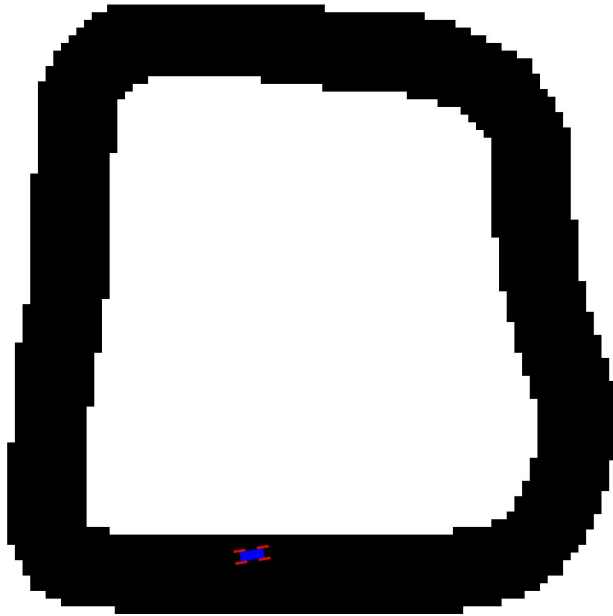


TECHCRUSH ARTIFICIAL INTELLIGENCE BOOTCAMP

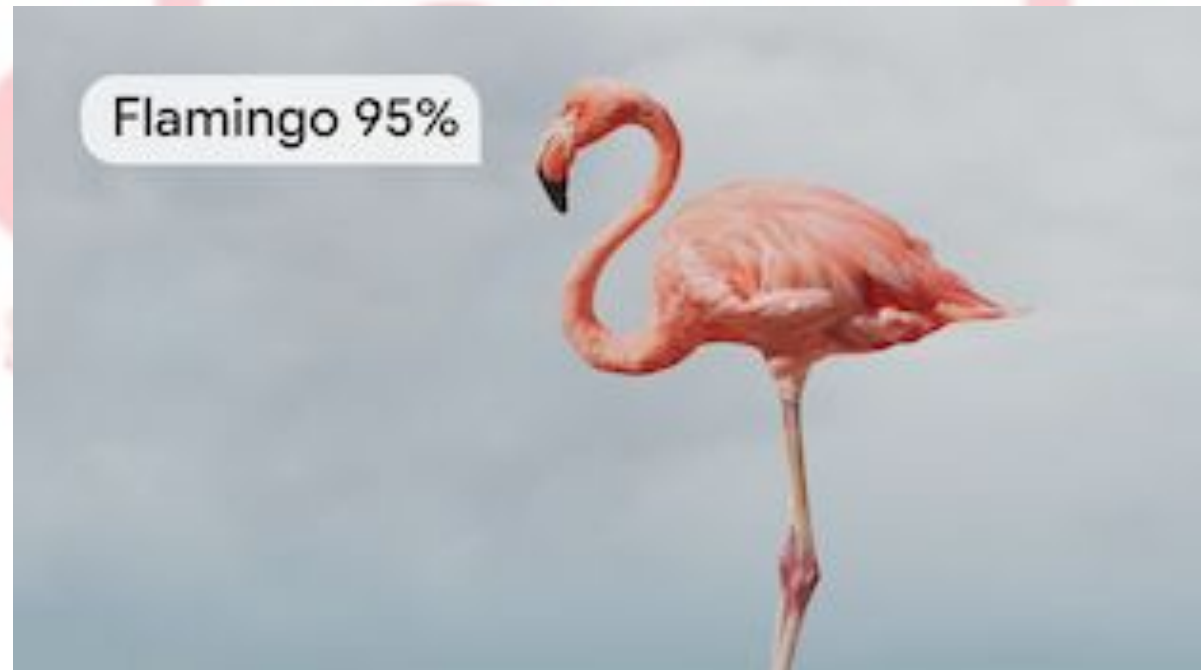
Facilitator: Hammied Obasekore
August 8th, 2025

Welcome
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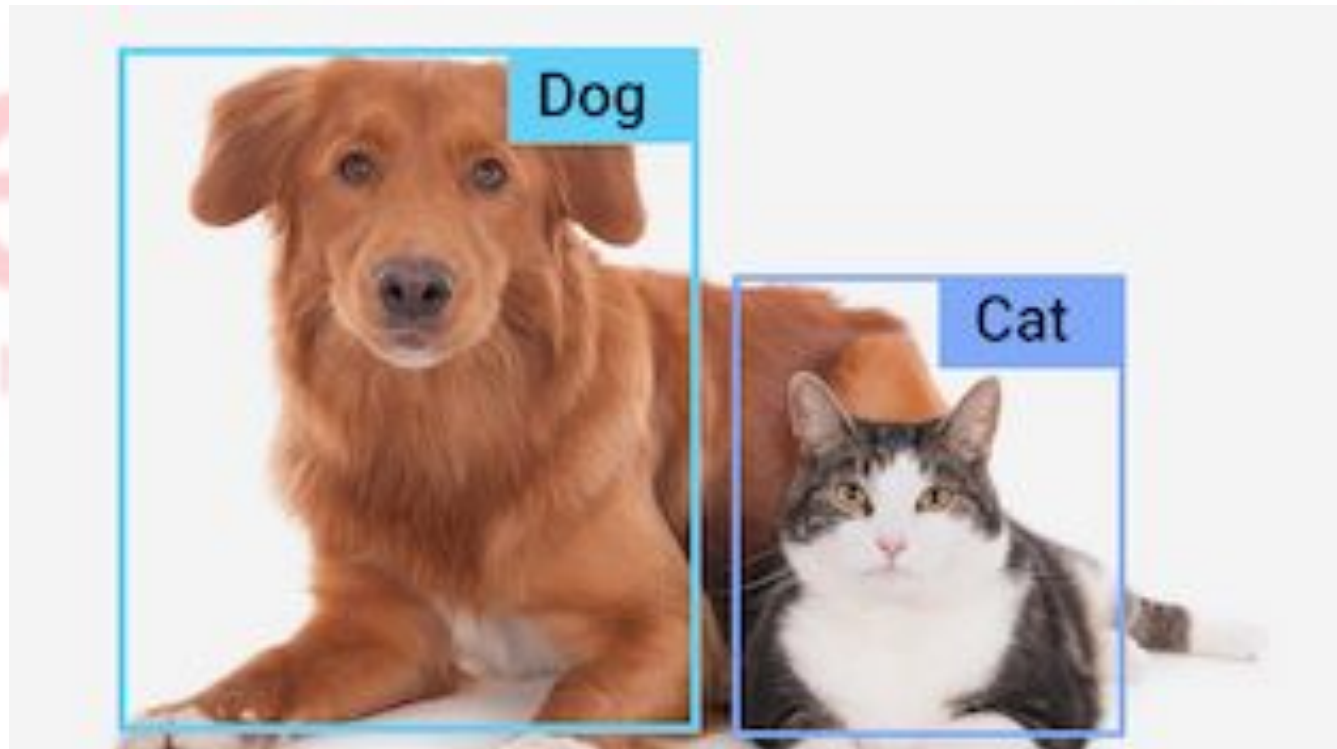
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[Image Classification](#)

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[Object Detection](#)

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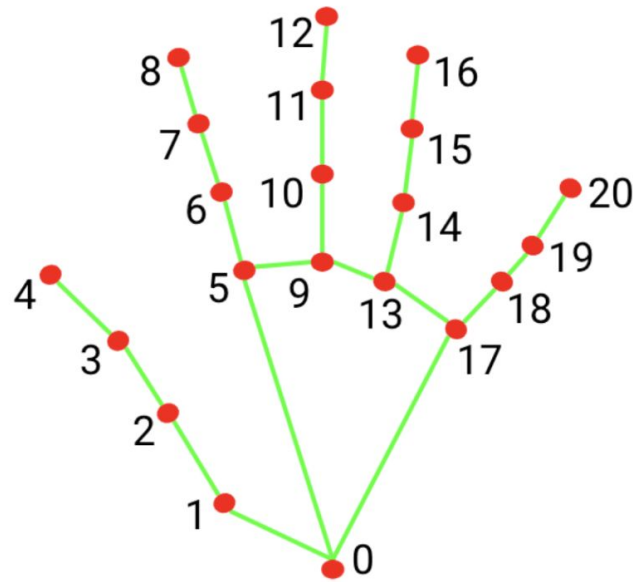
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[Pose Estimation](#)

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- 0. WRIST
- 1. THUMB_CMC
- 2. THUMB_MCP
- 3. THUMB_IP
- 4. THUMB_TIP
- 5. INDEX_FINGER_MCP
- 6. INDEX_FINGER_PIP
- 7. INDEX_FINGER_DIP
- 8. INDEX_FINGER_TIP
- 9. MIDDLE_FINGER_MCP
- 10. MIDDLE_FINGER_PIP

- 11. MIDDLE_FINGER_DIP
- 12. MIDDLE_FINGER_TIP
- 13. RING_FINGER_MCP
- 14. RING_FINGER_PIP
- 15. RING_FINGER_DIP
- 16. RING_FINGER_TIP
- 17. PINKY_MCP
- 18. PINKY_PIP
- 19. PINKY_DIP
- 20. PINKY_TIP

Gesture Recognition

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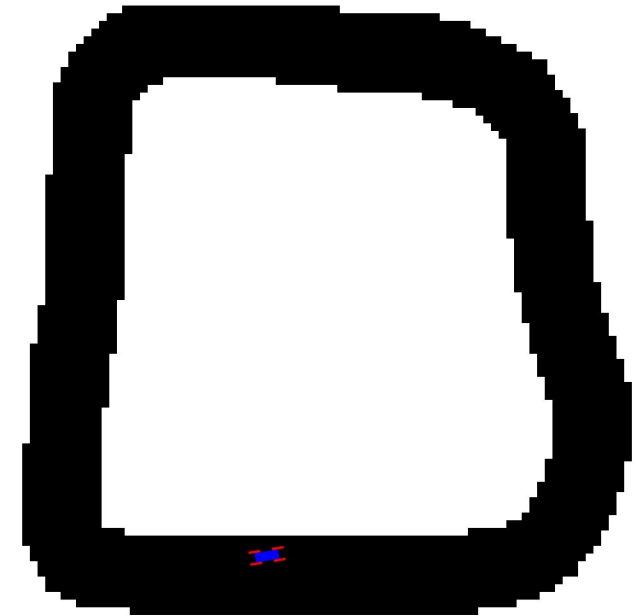


[Image Segmentation](#)

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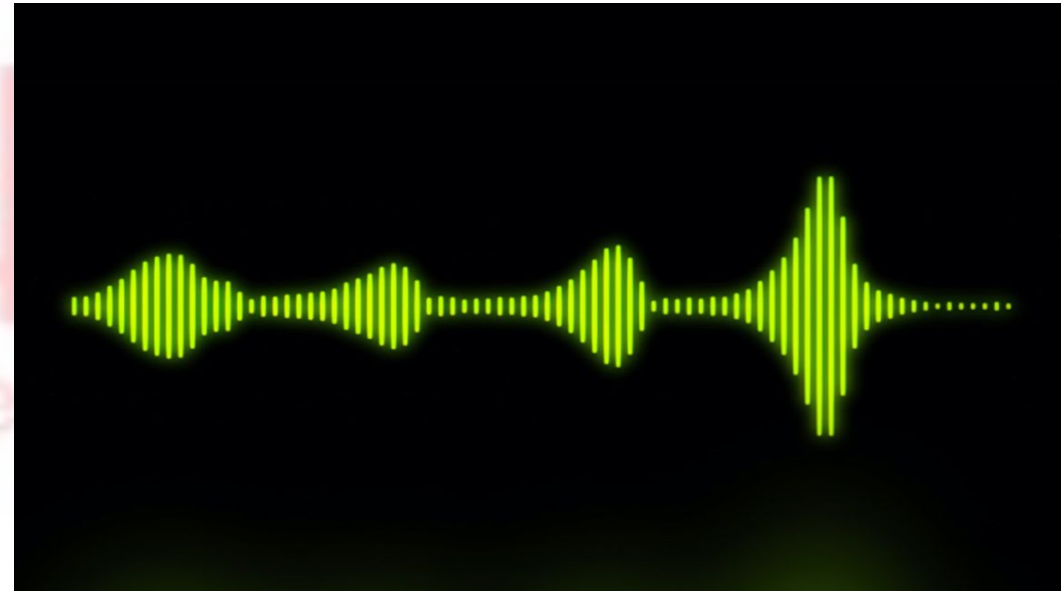


[Racing Car](#)

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[Audio Classification](#)

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Dominant Colour Extraction

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Canva

Graphics
Design



Brand Colour
From Logo



Dominant Colour Extraction

Use Case

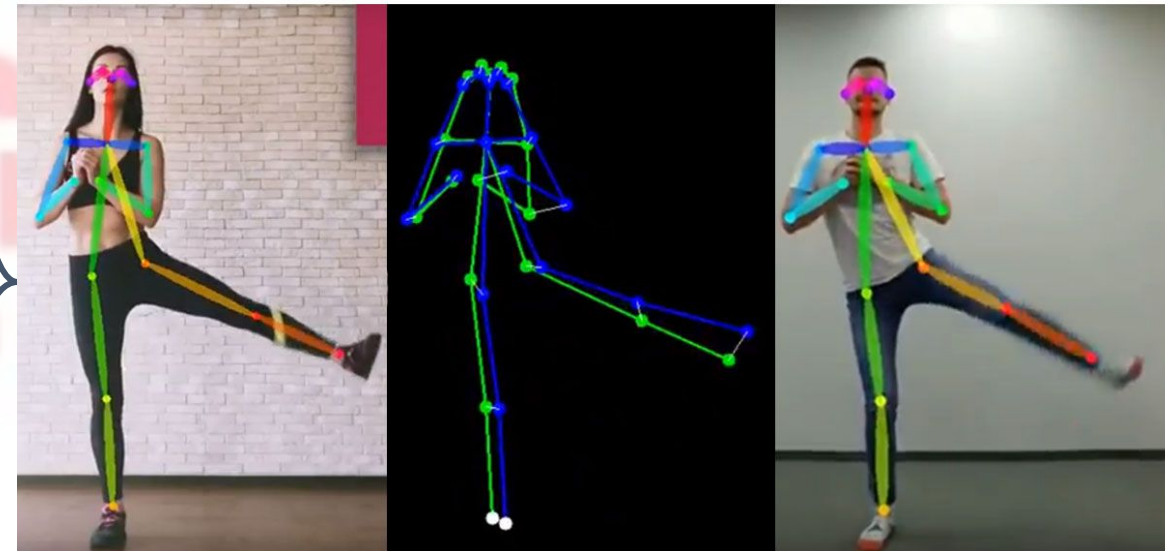
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Use Case

Get motivated

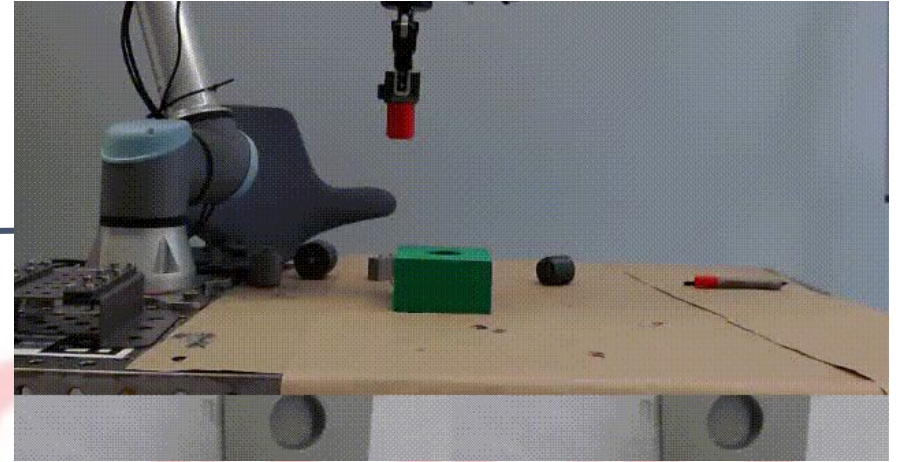
Virtual Sport
Coach

Virtual Fitness
AI Instructor



Pose Estimation

Real



Use Case

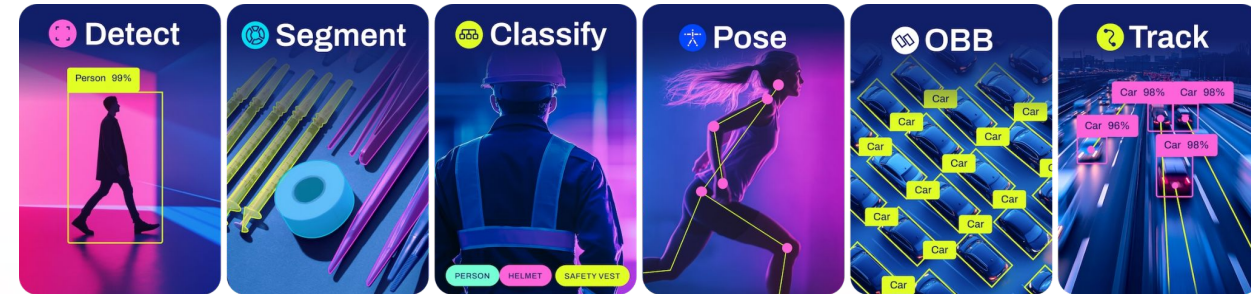
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Training Ground



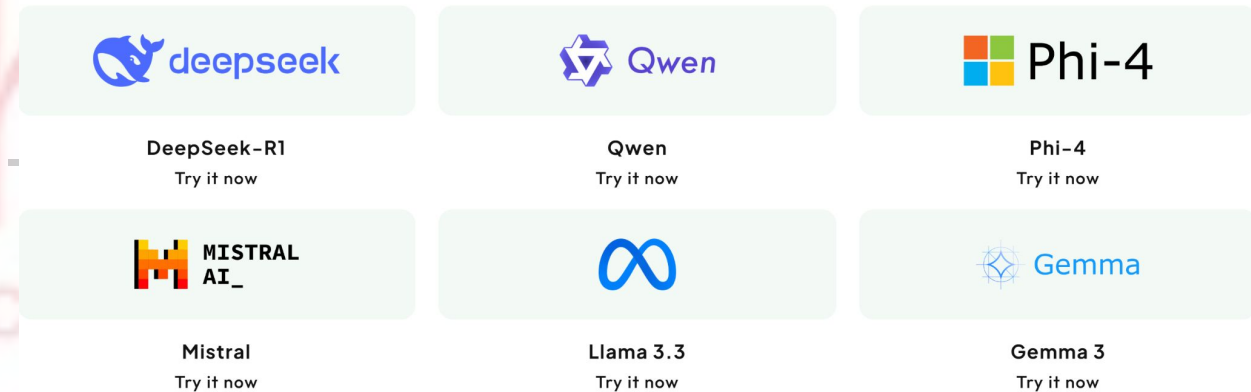
Robot Putting Peg-In-Hole

[ultralytics/ultralytics:
YOLO](https://ultralytics.com/ultralytics:YOLO) 



[Ollama - AI Models](#)

All For Free
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Backgrounds and Expectations

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Introduction to AI

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Introduction to AI: What is AI?

Artificial intelligence defined

Artificial intelligence is a field of science concerned with building computers and machines that can reason, learn, and act in such a way that would normally require human intelligence or that involves data whose scale exceeds what humans can analyze.

AI is a broad field that encompasses many different disciplines, including computer science, data analytics and statistics, hardware and software engineering, linguistics, neuroscience, and even philosophy and psychology.

On an operational level for business use, AI is a set of technologies that are based primarily on machine learning and deep learning, used for data analytics, predictions and forecasting, object categorization, natural language processing, recommendations, intelligent data retrieval, and more.

[\(7\) How smart are monkeys? \(chimpanzee\) 🐒 #experiment - YouTube](#)

[Source: Google](#)

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Introduction to AI: AI vs. Machine Learning vs. Deep Learning

Artificial Intelligence

AI involves techniques that equip computers to emulate human behavior, enabling them to learn, make decisions, recognize patterns, and solve complex problems in a manner akin to human intelligence.

Machine Learning

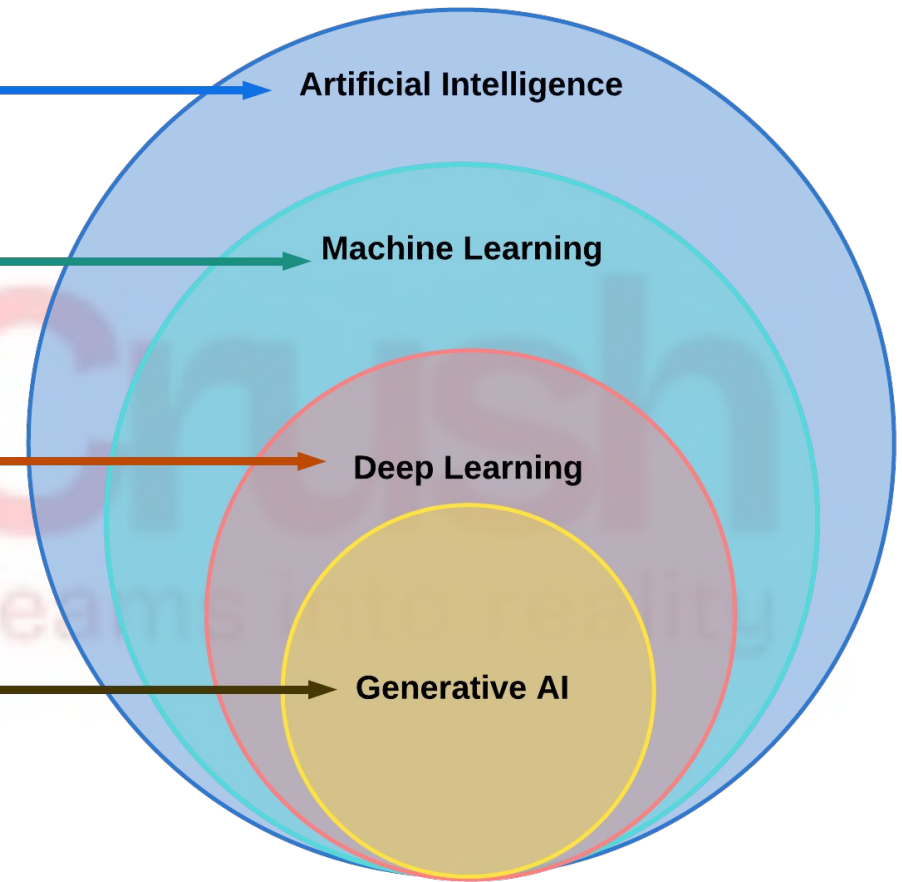
ML is a subset of AI, uses advanced algorithms to detect patterns in large data sets, allowing machines to learn and adapt. ML algorithms use supervised or unsupervised learning methods.

Deep Learning

DL is a subset of ML which uses neural networks for in-depth data processing and analytical tasks. DL leverages multiple layers of artificial neural networks to extract high-level features from raw input data, simulating the way human brains perceive and understand the world.

Generative AI

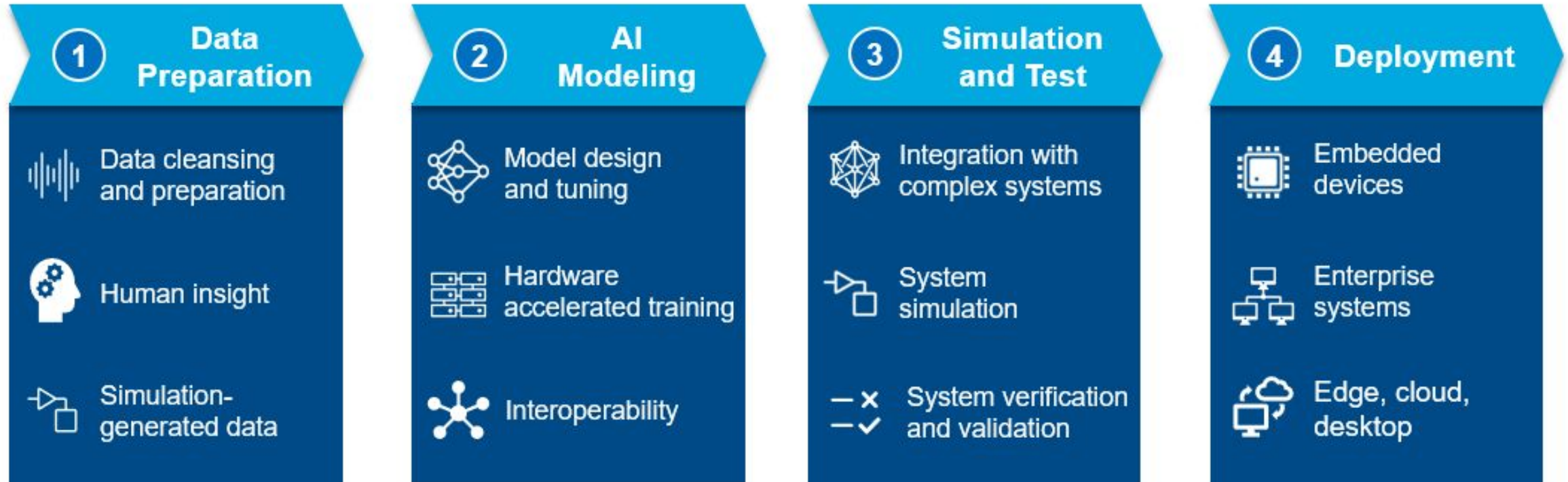
Generative AI is a subset of DL models that generates content like text, images, or code based on provided input. Trained on vast data sets, these models detect patterns and create outputs without explicit instruction, using a mix of supervised and unsupervised learning.



Unraveling AI Complexity - A Comparative View of AI, Machine Learning, Deep Learning, and Generative AI.

(Created by Dr. Lily Popova Zhuhadar, 07, 29, 2023)

Introduction to AI: AI Workflow Overview



Source: MathWorks

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Introduction to AI: AI Workflow Overview

Demonstration of AI Workflow

Source: MathWorks

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Questions?

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