

SPRING INTO AI

Building intelligent applications with Spring AI

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ABOUT ME

Learn more at danvega.dev

 Husband & Father

 Cleveland

 Java Champion

 Software Development 23 Years

 Spring Developer Advocate

 Content Creator

 @therealdanvega

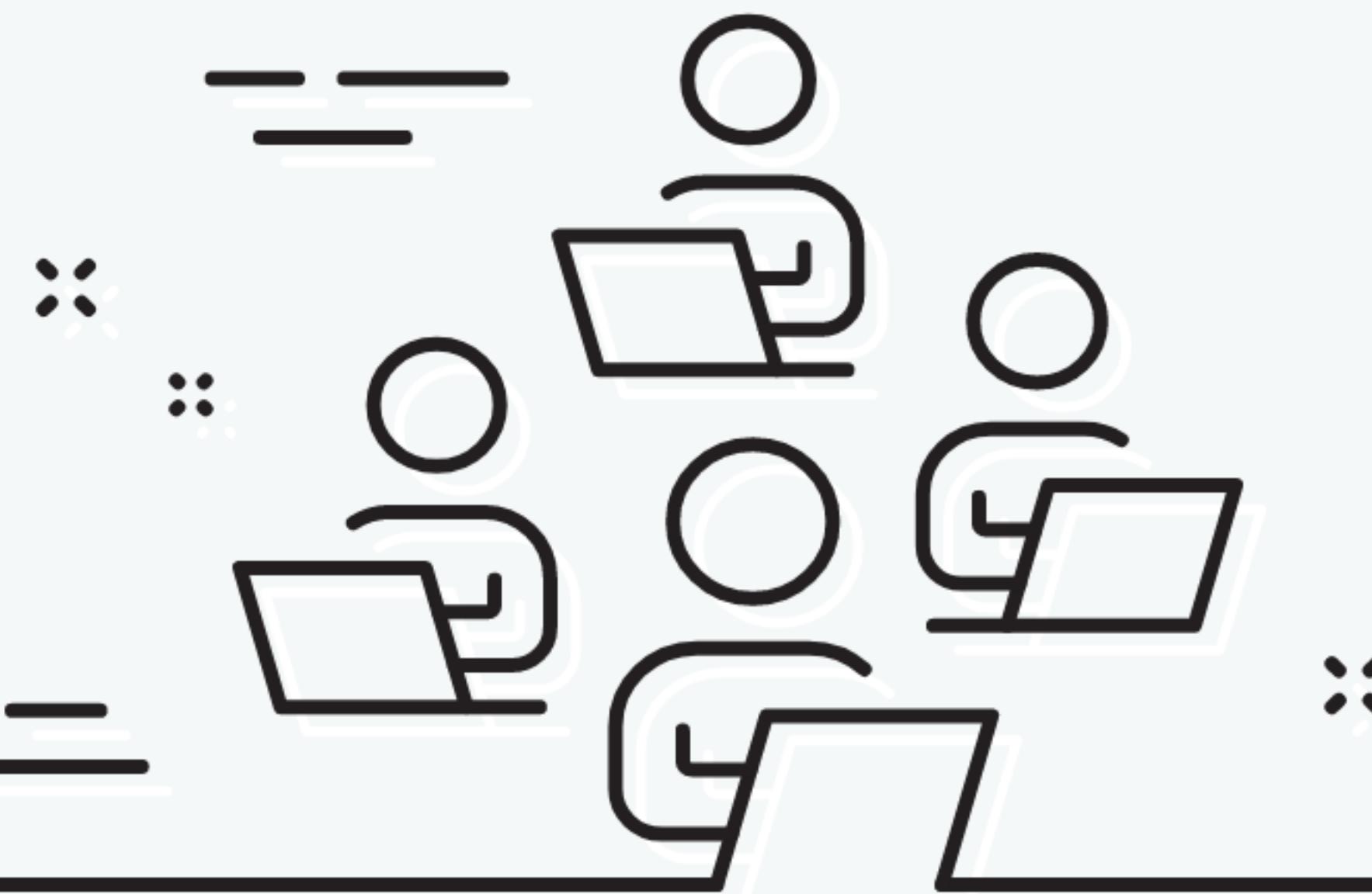
 Running

 Golf





OFFICE HOURS



<https://www.springofficehours.io>

AGENDA

What we will cover today

What is AI?

Java & AI

Spring AI

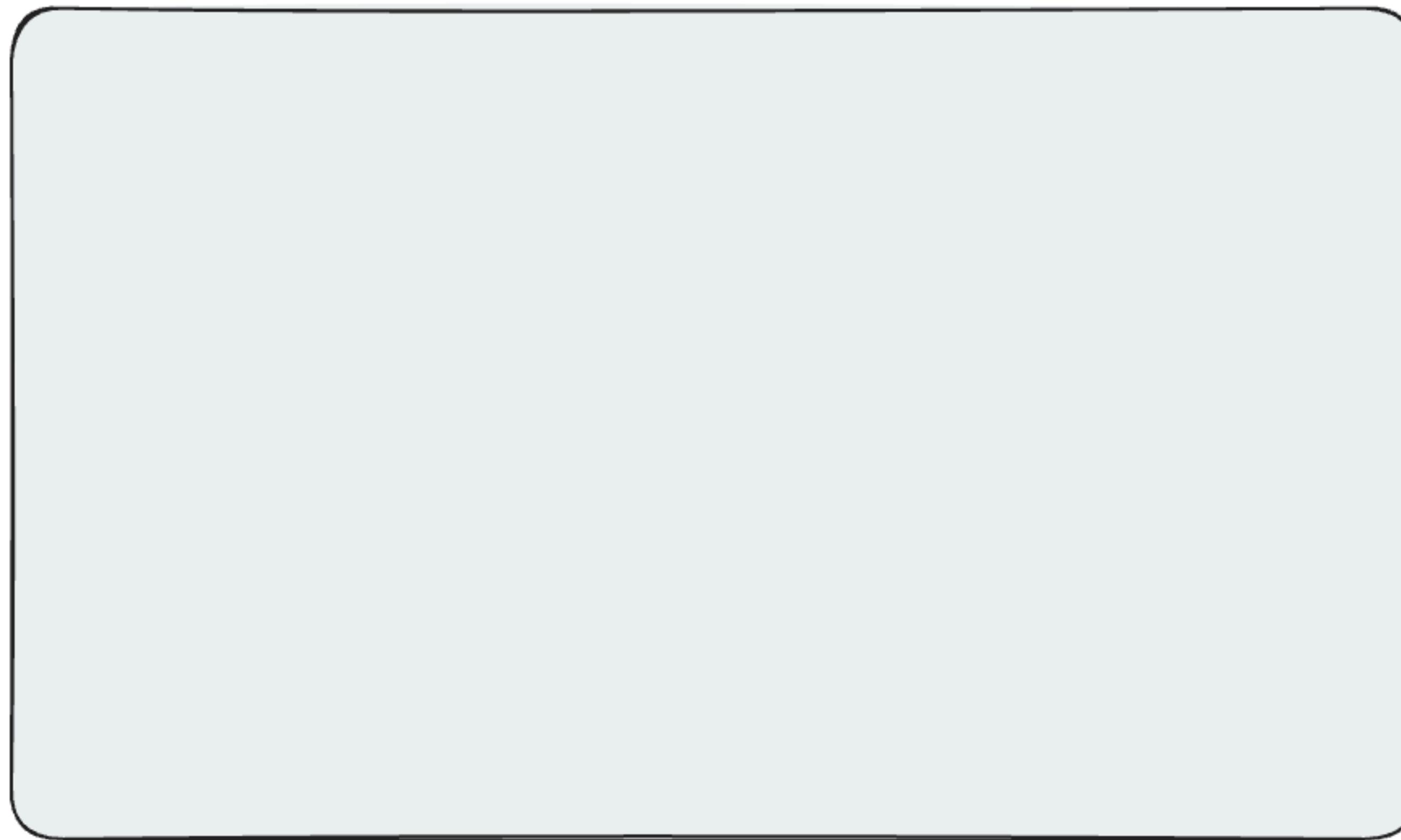
- How to get started
- Models
- Prompts
- Output Parsers
- Bring your own data



WHAT IS ARTIFICIAL INTELLIGENCE (AI)?

WHAT IS ARTIFICIAL INTELLIGENCE

Artificial Intelligence



MACHINE LEARNING

Artificial Intelligence

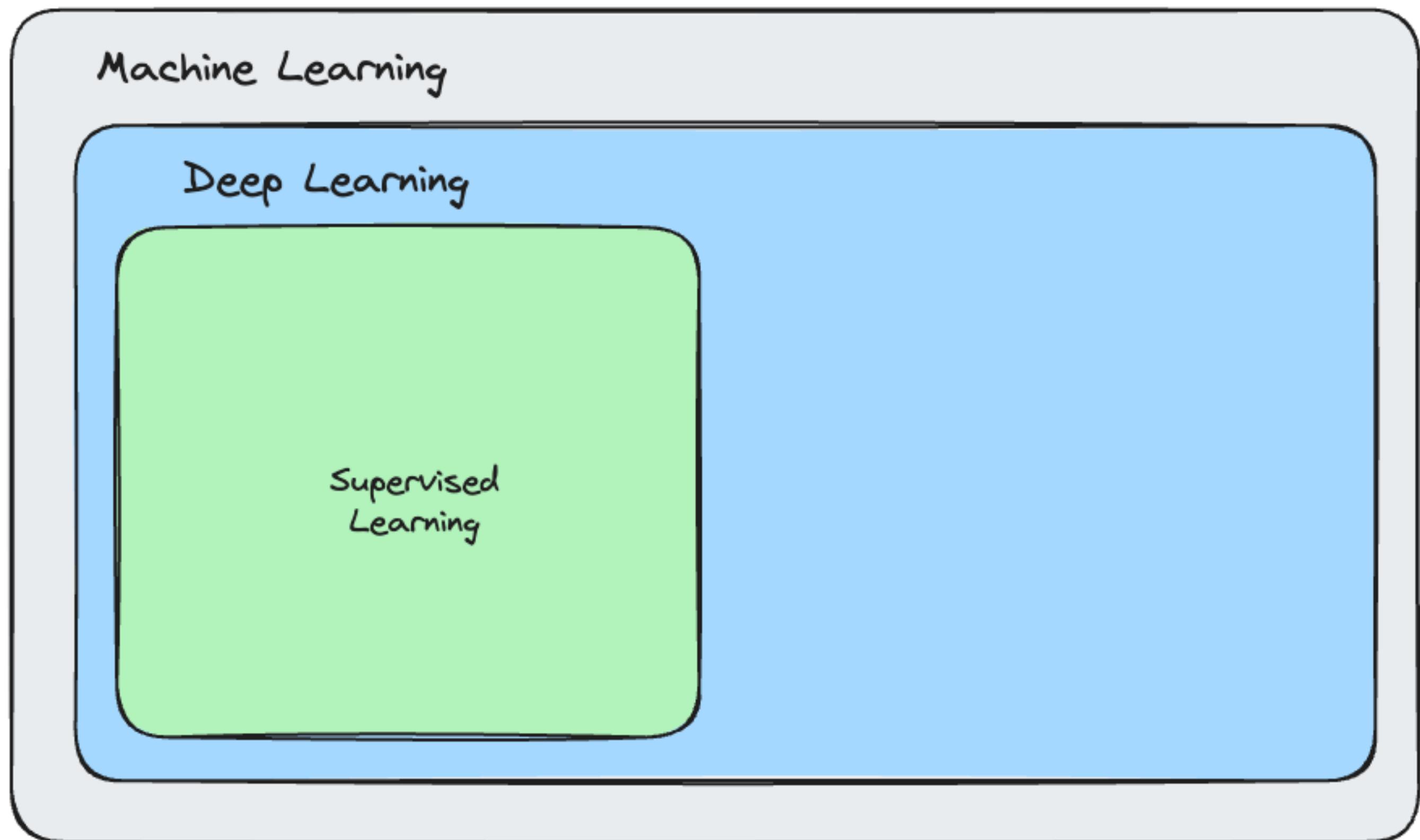
Machine Learning

Deep Learning

MACHINE LEARNING

Supervised Learning

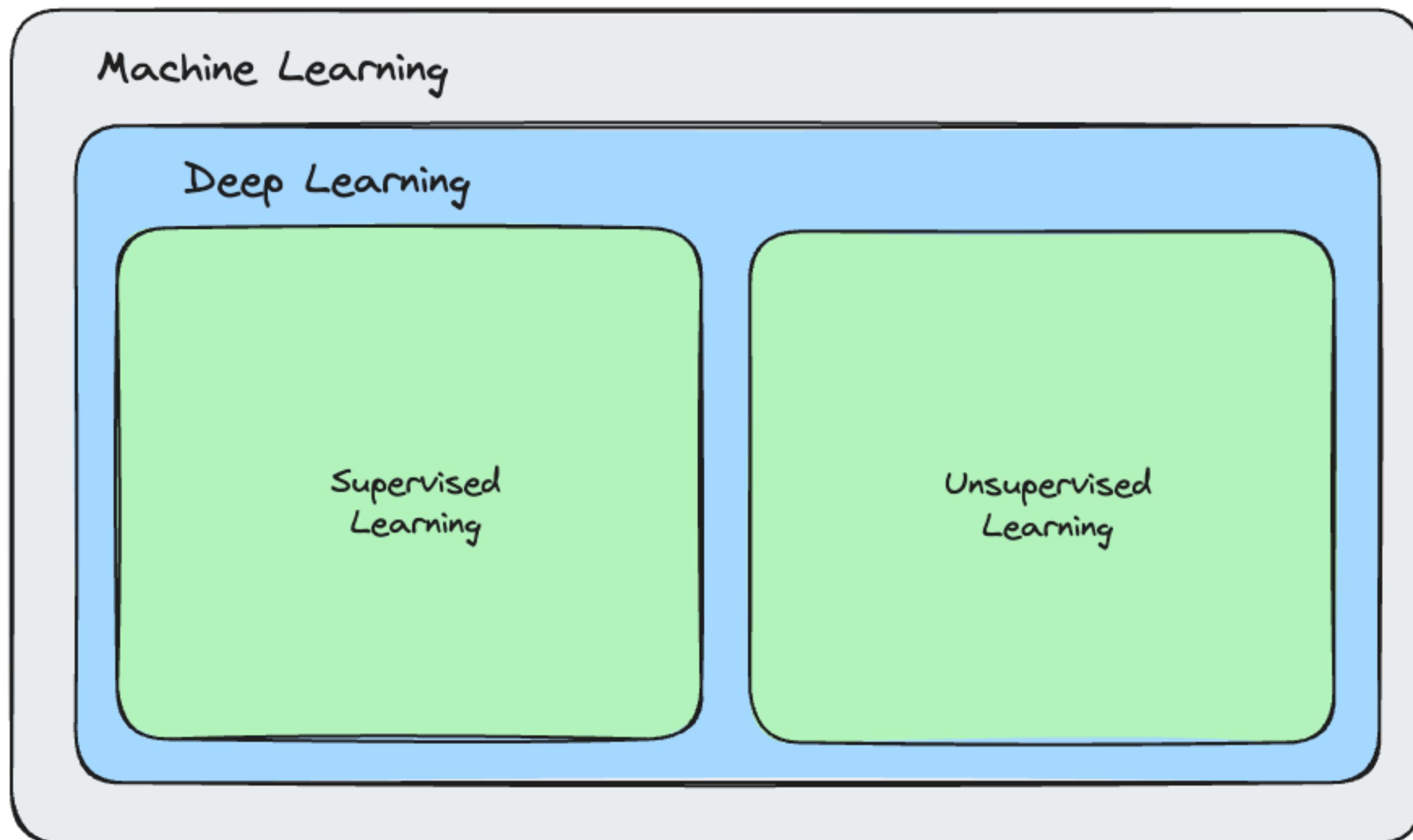
Artificial Intelligence



MACHINE LEARNING

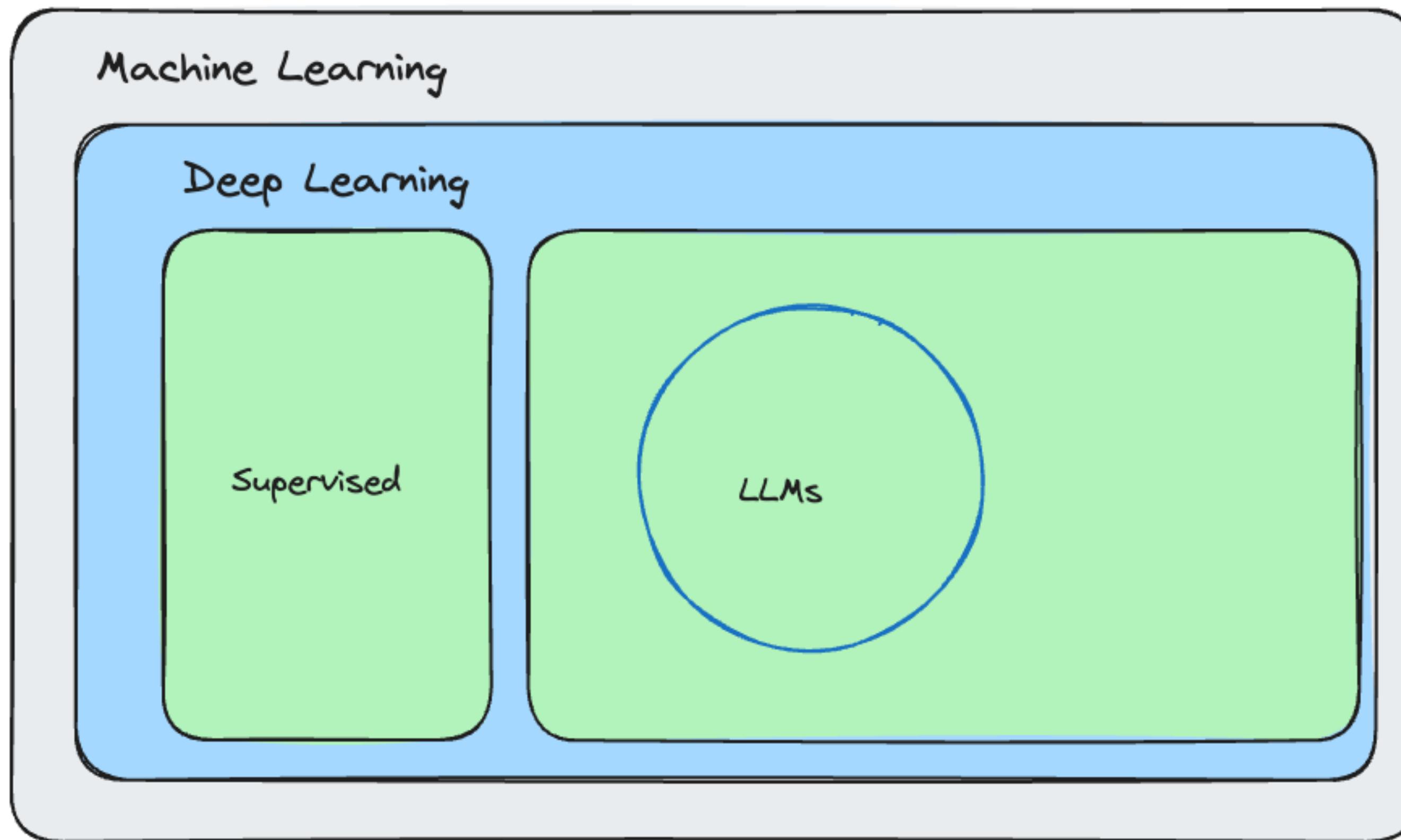
Unsupervised Learning

Artificial Intelligence



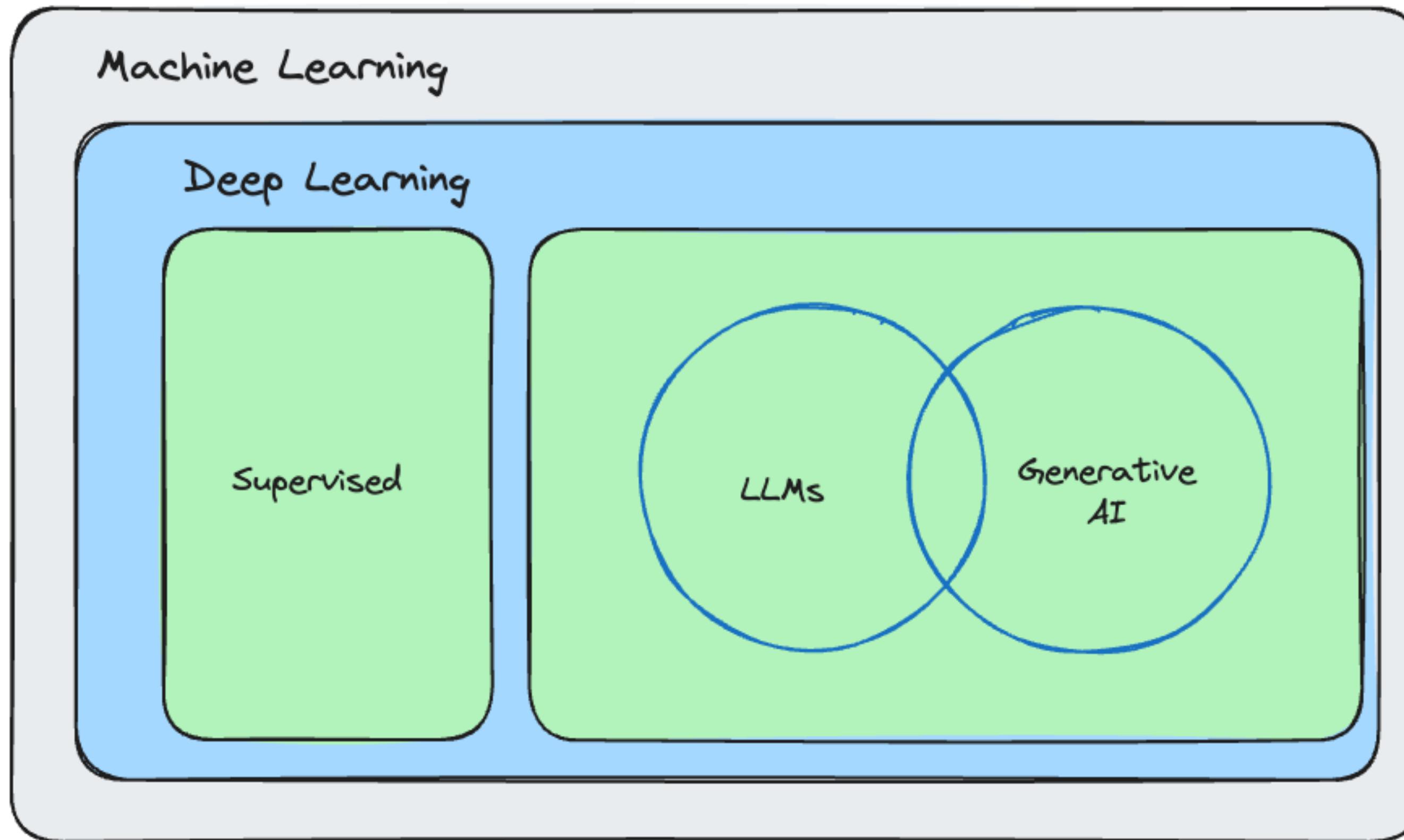
LARGE LANGUAGE MODELS (LLM)

Artificial Intelligence



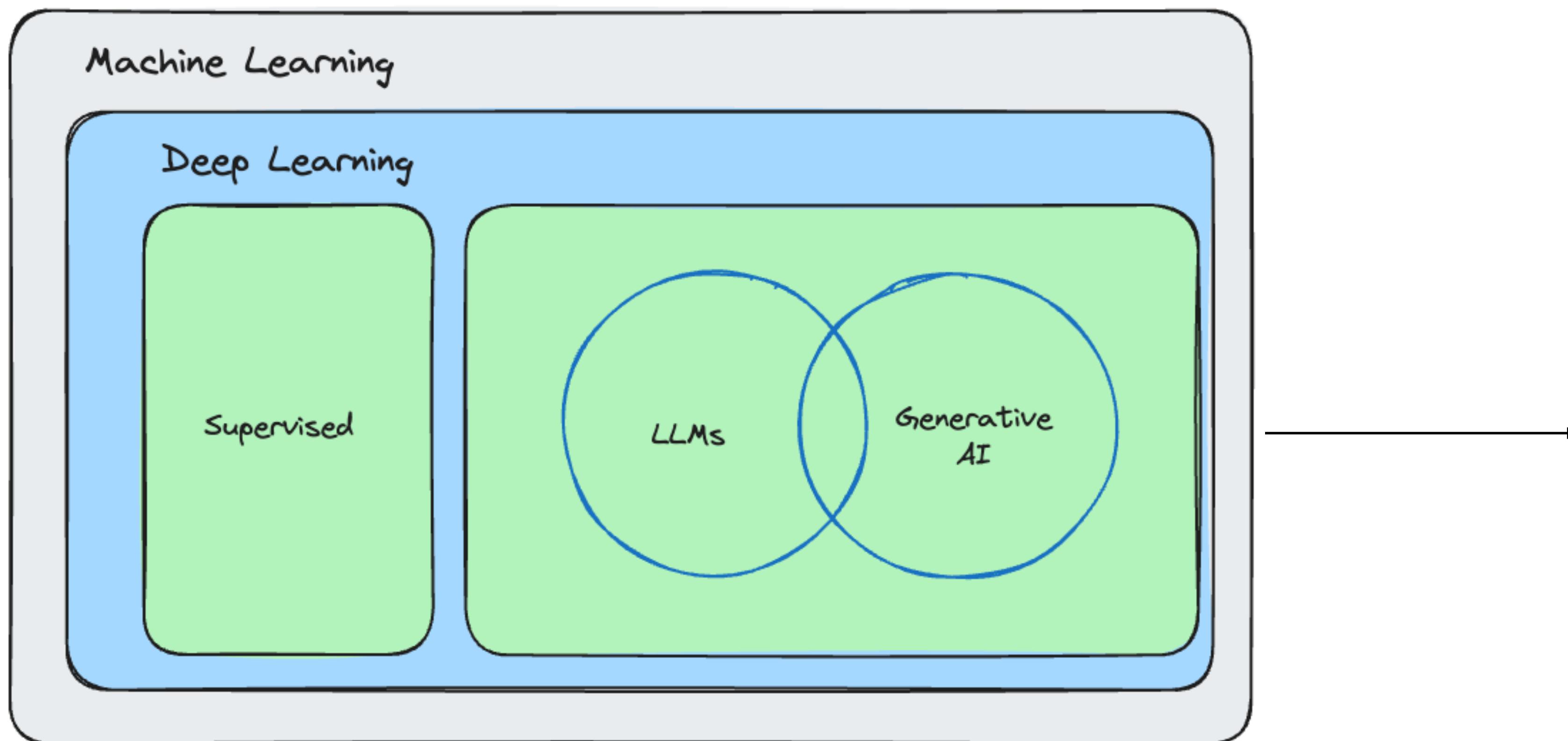
GENERATIVE AI

Artificial Intelligence



GENERATIVE AI

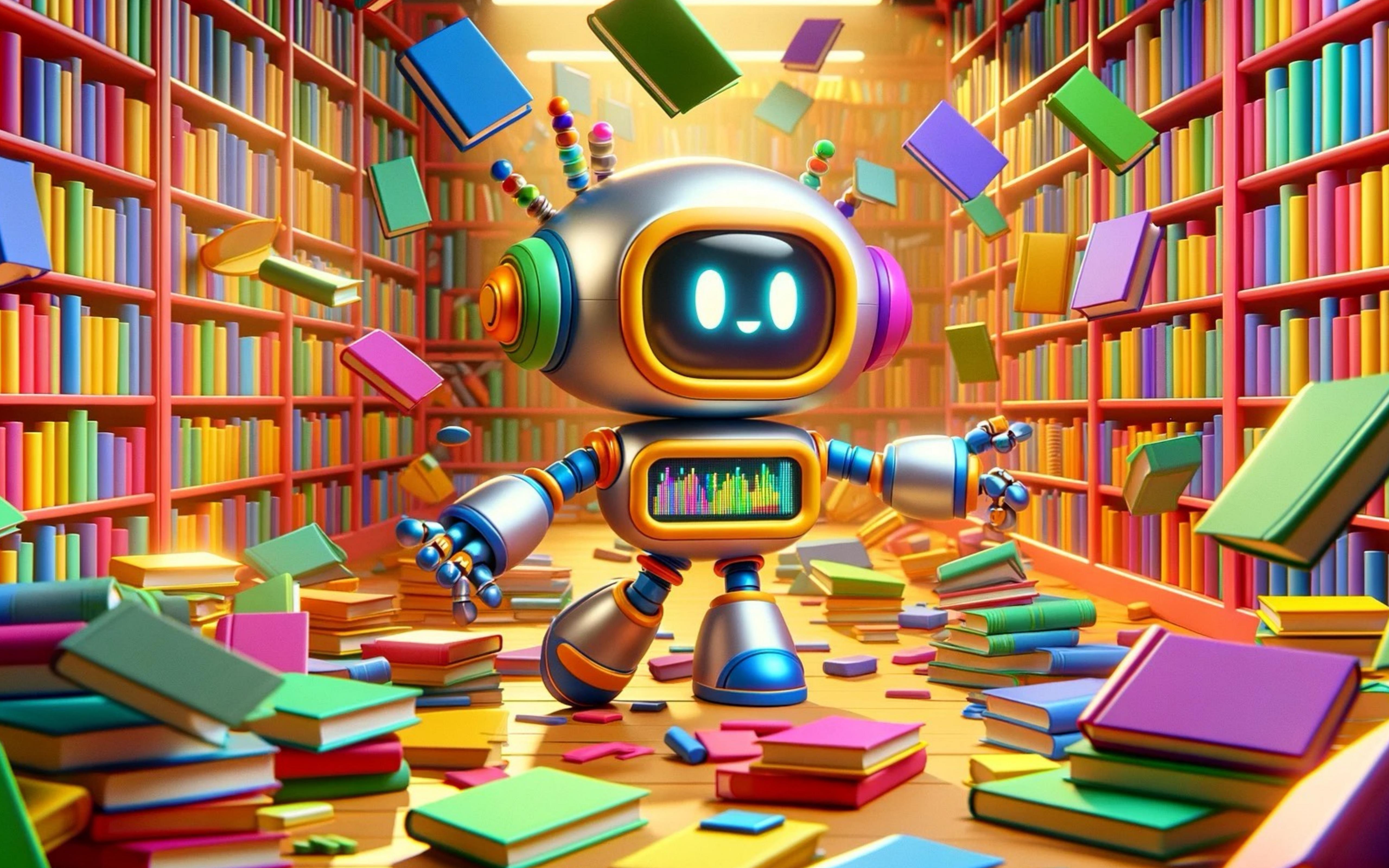
Artificial Intelligence



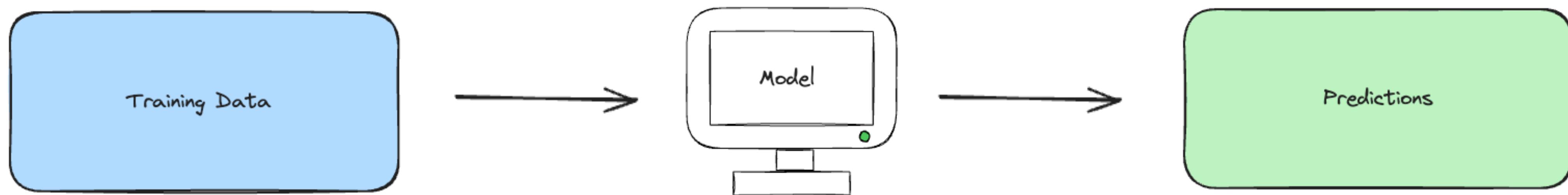
Gemini

MACHINE LEARNING





WHAT IS MACHINE LEARNING?



MACHINE LEARNING

Use Cases

- Facial Recognition
- Recognize Tumors on x-ray scans
- Abnormality on ultrasounds
- Self-driving mode (recognize stop sign / pedestrian / etc)
- Fraud detection
- Product Recommendations (YouTube)
- Spam Filtering



SUPERVISED LEARNING

Labeling the training data



→ Dan Vega



→ Dan Vega



→ Dan Vega



TRAINING DATA

Supervised Learning of Big Data Companies



HOW DOES MACHINE LEARNING WORK?