Artificial Intelligence/ Machine Learning

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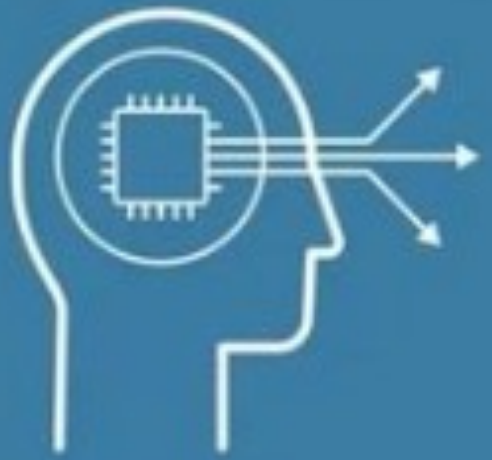
- Stanford Machine Learning Group
- CS 229: Machine Learning, Teaching Assistant

AI vs. ML



VS

ARTIFICIAL INTELLIGENCE

ENGINEERING OF MACHINES
THAT MIMIC COGNITIVE FUNCTIONS

MACHINE LEARNING

ABILITY TO PERFORM TASKS
WITHOUT EXPLICIT INSTRUCTIONS
AND RELYING ON PATTERNS

History of ML

1952

Arthur Samuel: computer program learns to play checkers

1980-2000

Algorithms for big data

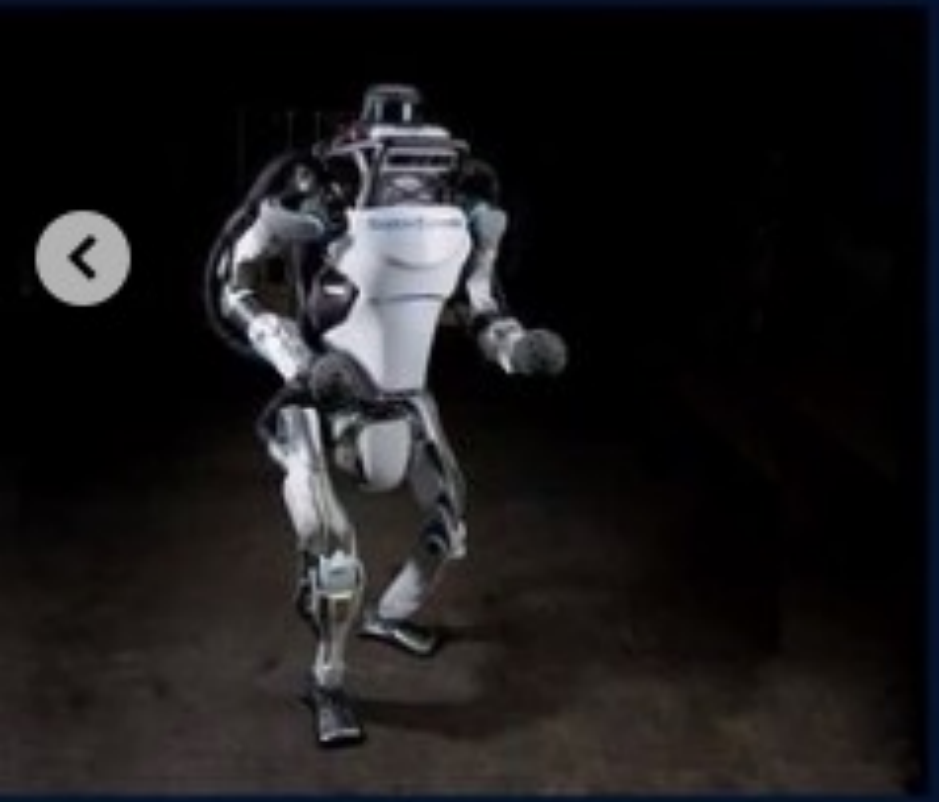
2000s

Deep learning takeoff

?

Supervised Learning

Reinforcement Learning



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Data Collection

Stanford ML Group

- NAIP imagery does not always provide a very recent capture of a location (see NAIP Status Maps). Results could differ with other imagery sources.
- The locations of detections are restricted to the coverage of NAIP, which only captures the continental U.S.
- The locations are not always centered on the facility.
- The storage tank counts are not always exact.

Check out the interactive map below, containing oil refineres detected by OGNet!

The radius of the circles is proportional to the number of storage tanks at each facility.