

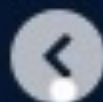
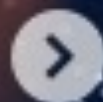
Artificial Intelligence/ Machine Learning

Beri Kohen



Hakkimda

- BS in Mathematical and Computational Science at Stanford University, MS in Data Science
- SHYFT Power Solutions, Hepsiburada, Uber
- Stanford Machine Learning Group
- CS 229: Machine Learning, Teaching Assistant



AI vs. ML



ARTIFICIAL INTELLIGENCE

ENGINEERING OF MACHINES
THAT MIMIC COGNITIVE FUNCTIONS

VS



MACHINE LEARNING

ABILITY TO PERFORM TASKS
WITHOUT EXPLICIT INSTRUCTIONS
AND RELYING ON PATTERNS

History of ML

1952

1980-2000

2000s

?

Arthur Samuel:
computer
program learns
to play checkers

Algorithms for
big data

Deep learning
takeoff



Supervised Learning



cs 229 |

cs229 stanford

cs229 notes

cs 229 problem sets

Unlike



Reinforcement Learning



ARDA ÇAĞ

ZEYNEP S

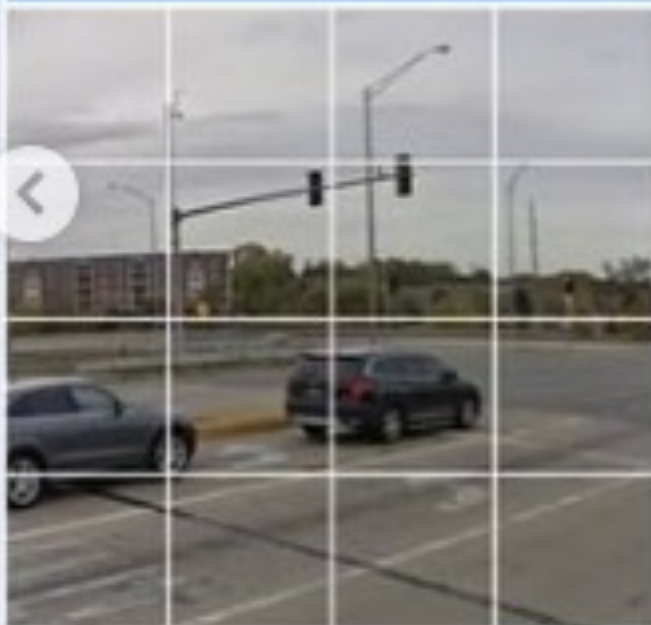
ELİF MAVİ

Arda Deniz

RESUL TA

Data Collection

Select all squares with
traffic lights
If there are none, click skip



Skip

Rule 1: Include all visible part and draw as tightly as possible.



CORRECT



WRONG: must be as tight as possible!



WRONG: must include all visible parts!



CORRECT



WRONG: occluded parts do not matter as long as all visible parts are included.

Source: cs.stanford.edu

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 refineries detected by OGNET!

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

