Andrew NG - Machine Learning Lecture 1.1 -slubot is Machine Learning? Arthur Samuel (1959) Machine Learning: Field of Study that gives computers the ability to learn without being explicitly programmed.

(Bilisayarların aaikan programlanmadan öprenne yetenigi ven Gallismi allanı)

Tom Mitchell (1998): Well-posed Learning Problem: A compute program
is said to learn from experience E with respect to some task T

and some performace measure P, if i'ts performance on T, as measured
by P macket with experience E. by P, improves with experience E. (Br biginger programinin i Pile öldülen Themobili perfamens), dereyim Eile yilesiva i bazı garar The bazı perfamens öldütler Pile i filis olarah Edneyiminden Frencksi söylenki) Task t -> playing checkers (dama gynama) Performance measure P-) The probability that was the rext game of checkes against some new apported (Pakip) Exp: Sypose you e-mail program watches which emails you do or do not mark as spam, and based on that learns how to bette filter spam. What is the task T in this setting?

better filter spam. What is the task T in this setting?

De classifying emails as spam or not spam.

O watching you label Demails as spam or not spam.

O The number (or fraction) of emails correctly classified as pay

o None of the above — this is not a marchine learning I not spam

pollen

De Expansive E

2) - measure P

Machine Learning Algarithmsi'

- Seperised Learning; (Denetimbi opienne)

- Unsupervised Learning (Denetimbil opienne)

Others: Reinforcement learning, Recommender systems:

(pelistrine, appliedmentalingers.), (Talvine sistember)

Also talk about: Practical advice for applying learning appointhms.

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