Machine Learning

Intelligence?

The conclusions of every department are passed to him, and he is the central exchange, the clearinghouse, which makes out the balance. All other men are specialists, but his specialism is omniscience.
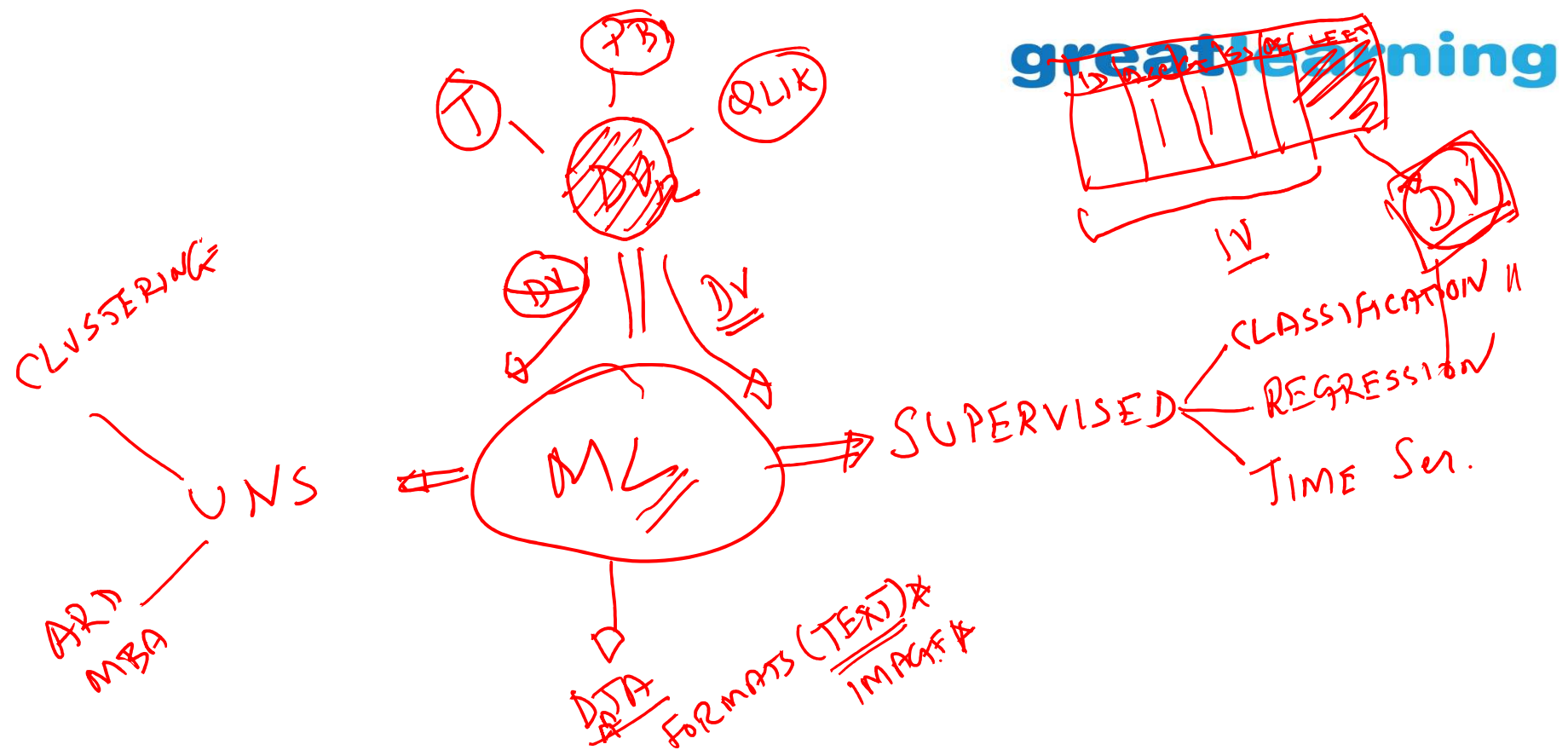
—"The Bruce-Partington Plans"

Omniscience ("all-knowing") is the capacity to know everything that there is to be known.

It's all about Pattern

3

It's all about Pattern

But, how to find them?

CLUSTERING

UNS

ARD
MBA

PB

T

QLIK

DV

DV

ML

SUPERVISED

CLASSIFICATION n
REGRESSION
Time Ser.

DV

IV

DTA FORMATS (TEXT) *
IMAGE *

$Y = mx + c$

L1 — LASSO β VS   √
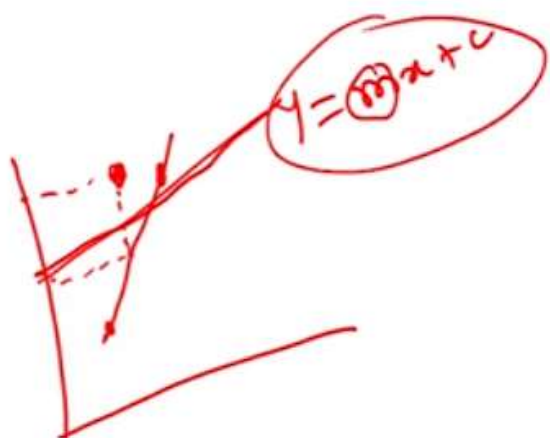
L2 — Ridge

RIDGE $\left[\underline{min} = LS\ OBJ + \lambda(sum\ of\ squares) \right]$

LASSO $\left\{ min = LS\ OBJ + \lambda(sum\ of\ absolute\ value) \right.$

Practical Cases

- Diamond Pricing Problem (Derived dataset)- Linear, Regularization and Feature Engineering