为用轮的 AA 1 Page 对 2016104109 排出逐却 引持个

* Type of Machine learning P.M

①25章章。Supervised

→ 野 州日外 经改0 年 予切とり

→ ==== Retression

+ Him: Classification

② 山对车 幸任: Unsupervised.

→ 팀 벡터는 주어지만, 光값이 주어지지 않는

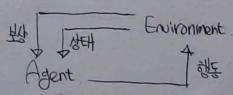
→ 군진화: Clustering

→ 및도 추정: Density Estimation

→ 対記者: Demensionality Reduction

③对动生: Reinforcement

中部是 全地 空地是 刘明却是 3岁



* Data Representation Methodology. P.32

Training Set

X1 X2 Y

X(0) X(0) Y(0)

X1(10) X(0) Y(0)

Besign Matrix

X = [Z, (1) Z2 (1)]

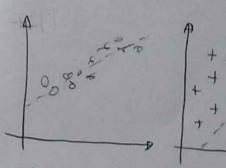
[Z, (N) Z2 (N)

= | 7017

2) Feature Vector

A Linear Model $\hat{y} = \underline{W}^T \underline{X} + b$ $[\theta, a] [x]$

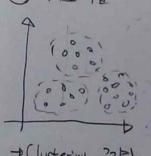
* Supervised us Unsupervised. P. 19~20



-> Regression, 실수치 Ex) 가격 예측

(x) 스템여부 된번

2) 即至验



Manifold on Model Help

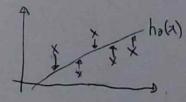
→ Clustering, 己对到

- Demensionality Reduction

* Cost Function P.33

· MSF (Mean Squared Error)

 $J(\theta_0,\theta_1) = \frac{1}{2m} \sum_{i=1}^{n} \left(h_{\theta}(x^{(i)}) - y^{(i)} \right)^2$



* Optimization P.35.

OGradient Descent

@ Stochastic Grodient Descent - Iterative

3 Newton's Nethod

A Normal Equation

- - Analytic