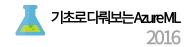
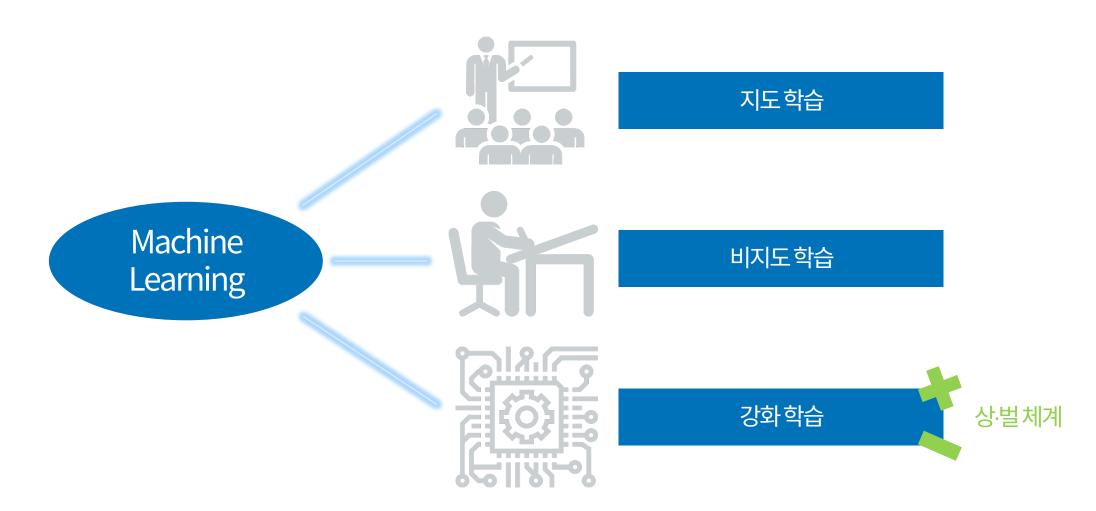
Machine Learning 기초이론부터 Azure ML Studio 사용실전기 2. Machine Learning 으로 그리즘



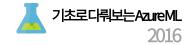


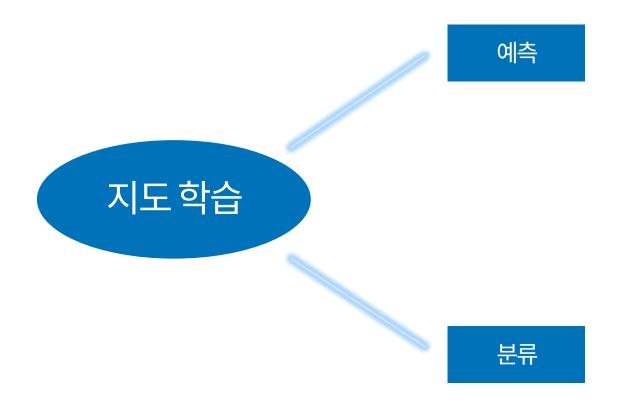
Machine Learning 알고리즘 분류





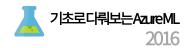
지도 학습 분류





- (1) Linear Regression
- (2) Logistic Regression
- (3) Softmax Regression

지도 학습 분류



(1) Linear Regression

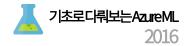
Х	У
1	1
2	100
3	6500
4	112509
5	125468

(2) Logistic Regression

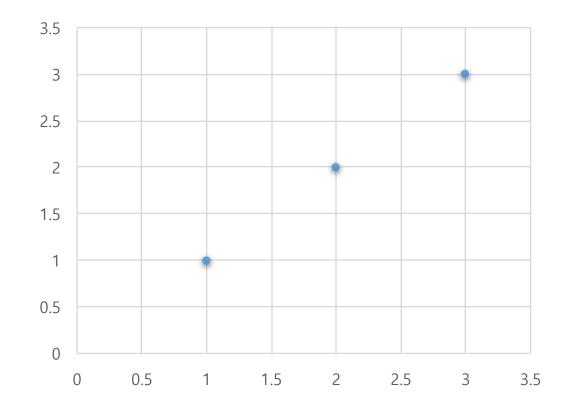
X	У
1	Υ
2	Υ
3	N
4	Y
5	N

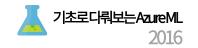
(3) Softmax Regression

X	У
0	F
1	D
2	С
3	В
4	А

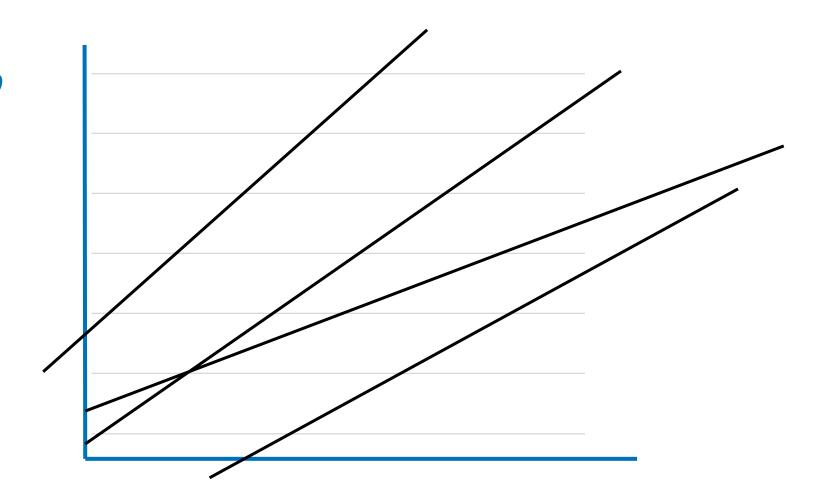


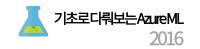
x	У
1	1
2	2
3	3



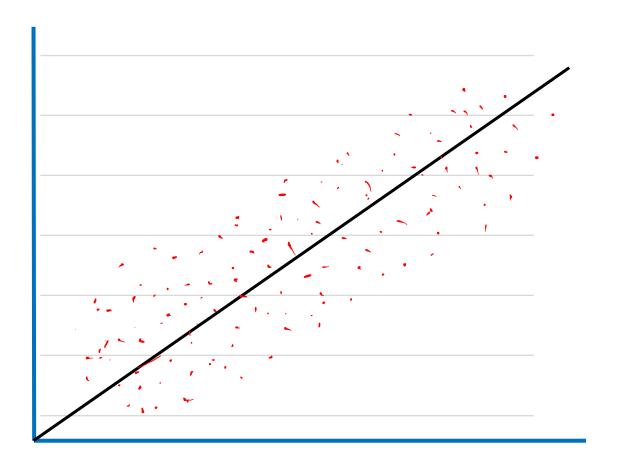


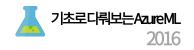
$$H(x) = W(x) + b$$





$$Cost = \frac{1}{m} \stackrel{m}{\underset{i=1}{\leq}} (H(xi) - Yi)^{2}$$





Х	у
1	1
2	2
•	2

$$Cost = \frac{1}{m} \stackrel{m}{\underset{i=1}{\text{Z}}} (H(xi) - yi)^{2}$$

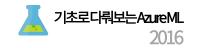
$$W=1, \cos t = 0$$

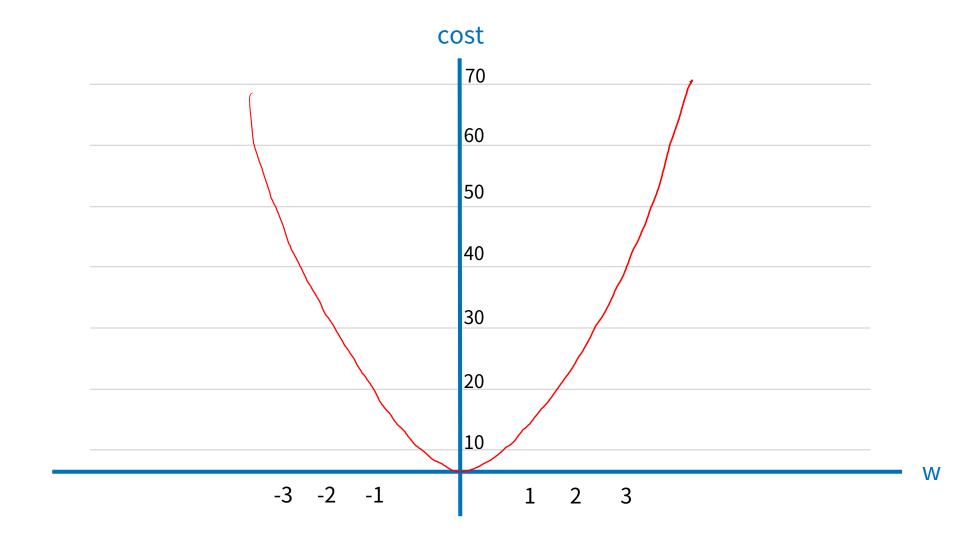
$$\frac{1}{3}((1*1-1)^{2}+(1*2-2)^{2}+(1*3-3)^{2})$$

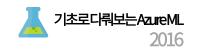
$$W=0, \cos t = 4.67$$

$$\frac{1}{3}((0*1-1)^{2}+(0*2-2)^{2}+(0*3-3)^{2})$$

$$W=2, \cos t = ??$$



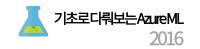




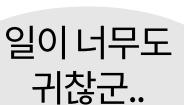




kNN 알고리즘







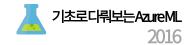


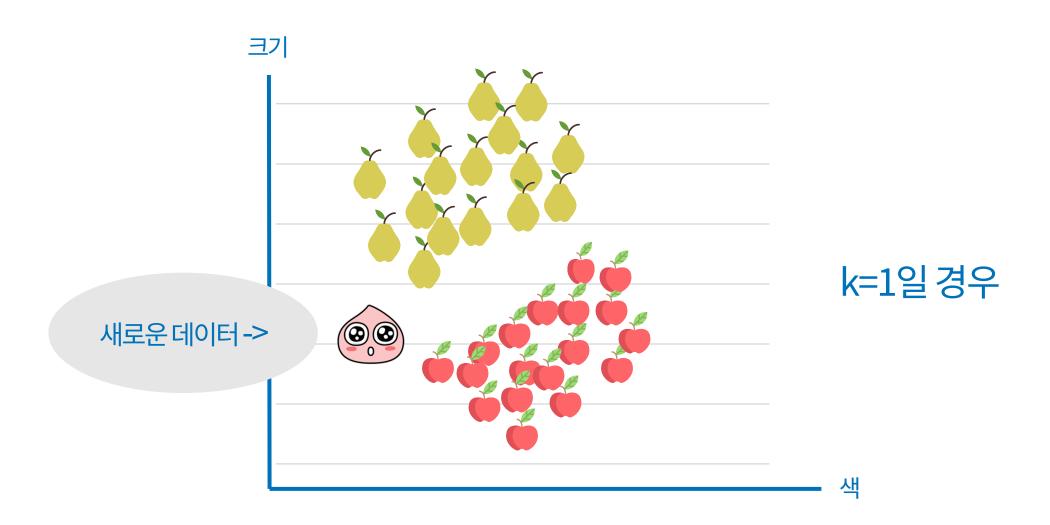




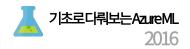


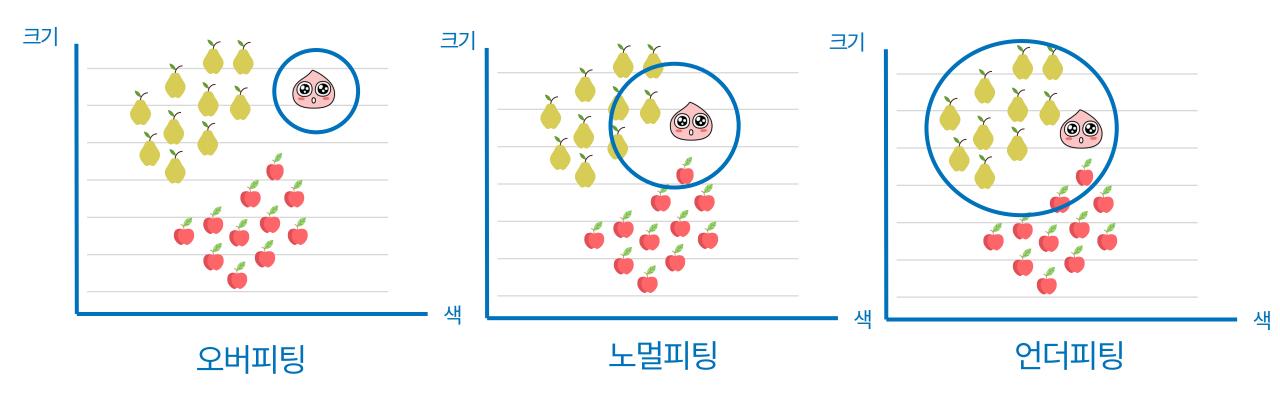




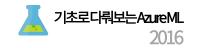


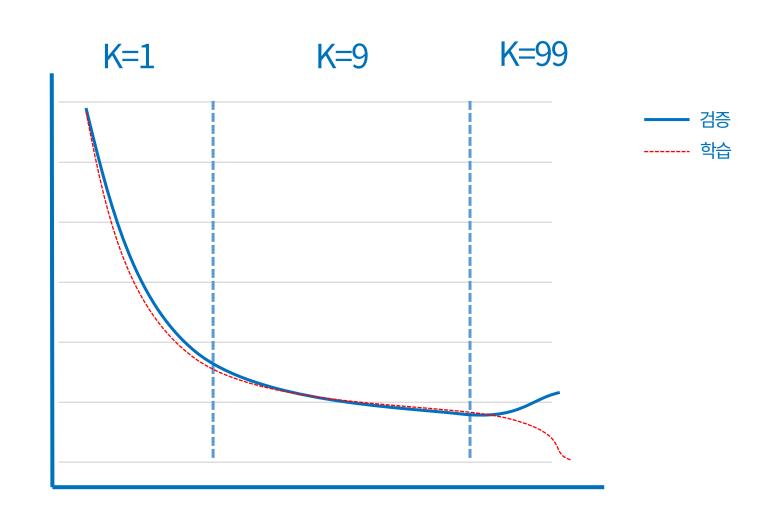
kNN 알고리즘

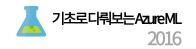




kNN 알고리즘









k-means 클러스터링

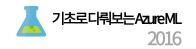


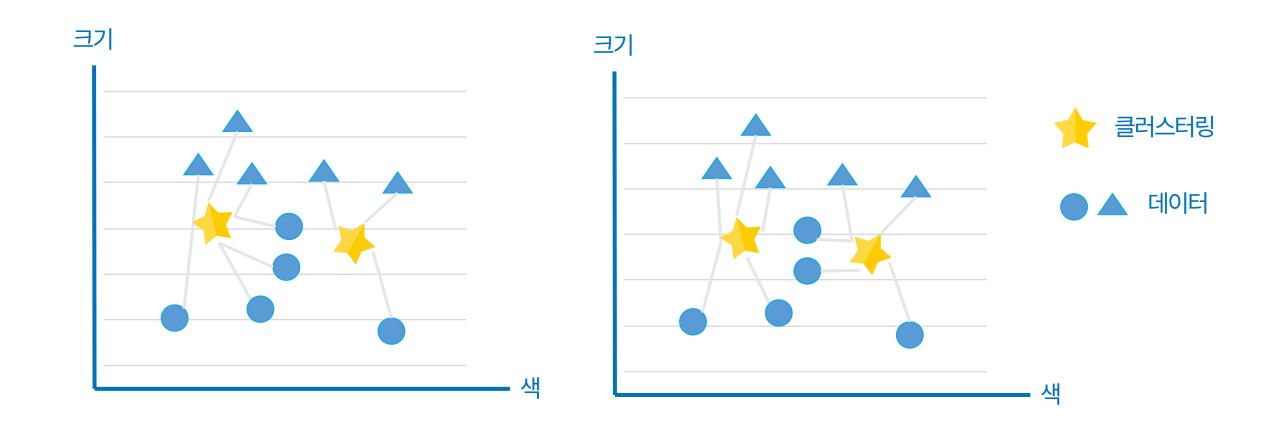
k-means 클러스터링



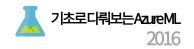


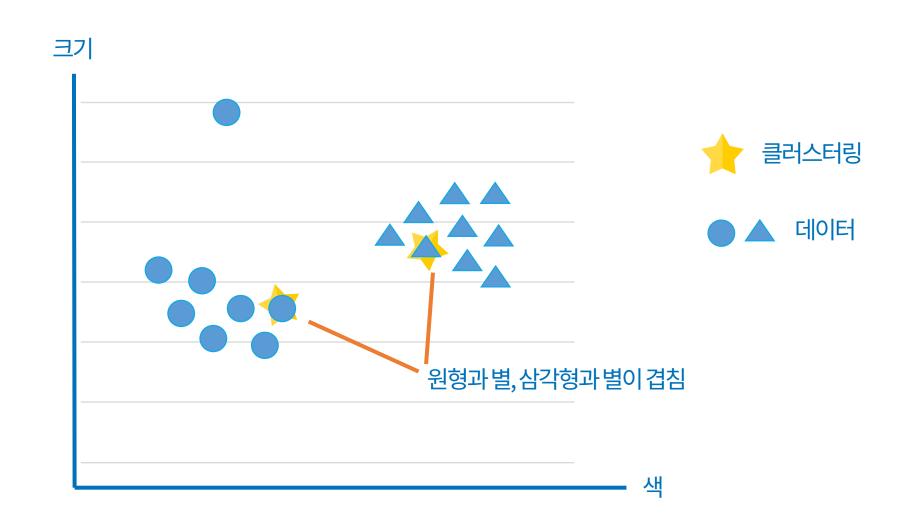
k-means 클러스터링



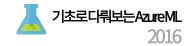


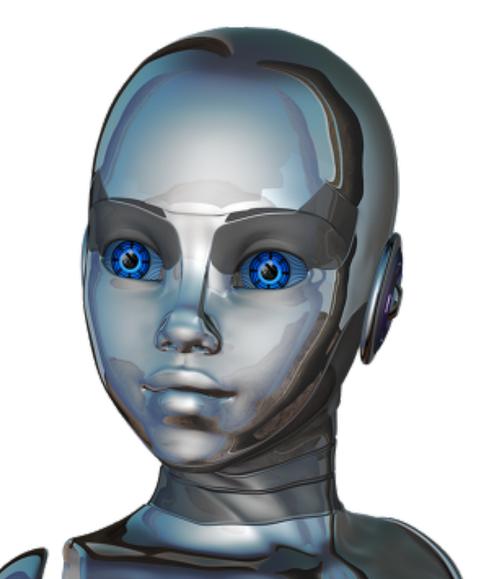
k-means 클러스터링 장점과 단점





제 3의 Machine Learning









My CPU is a neural net processor, a learning computer.

