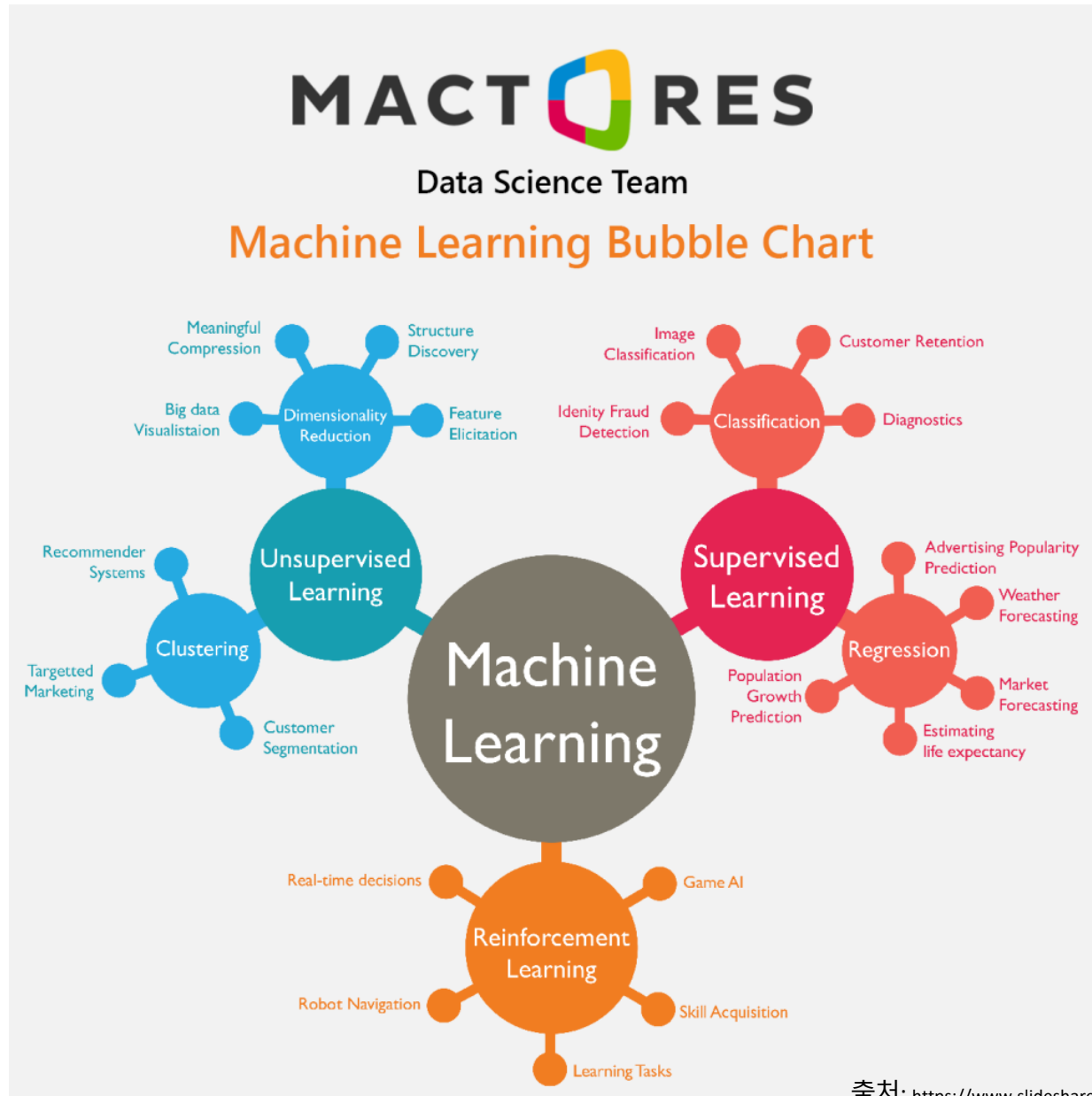
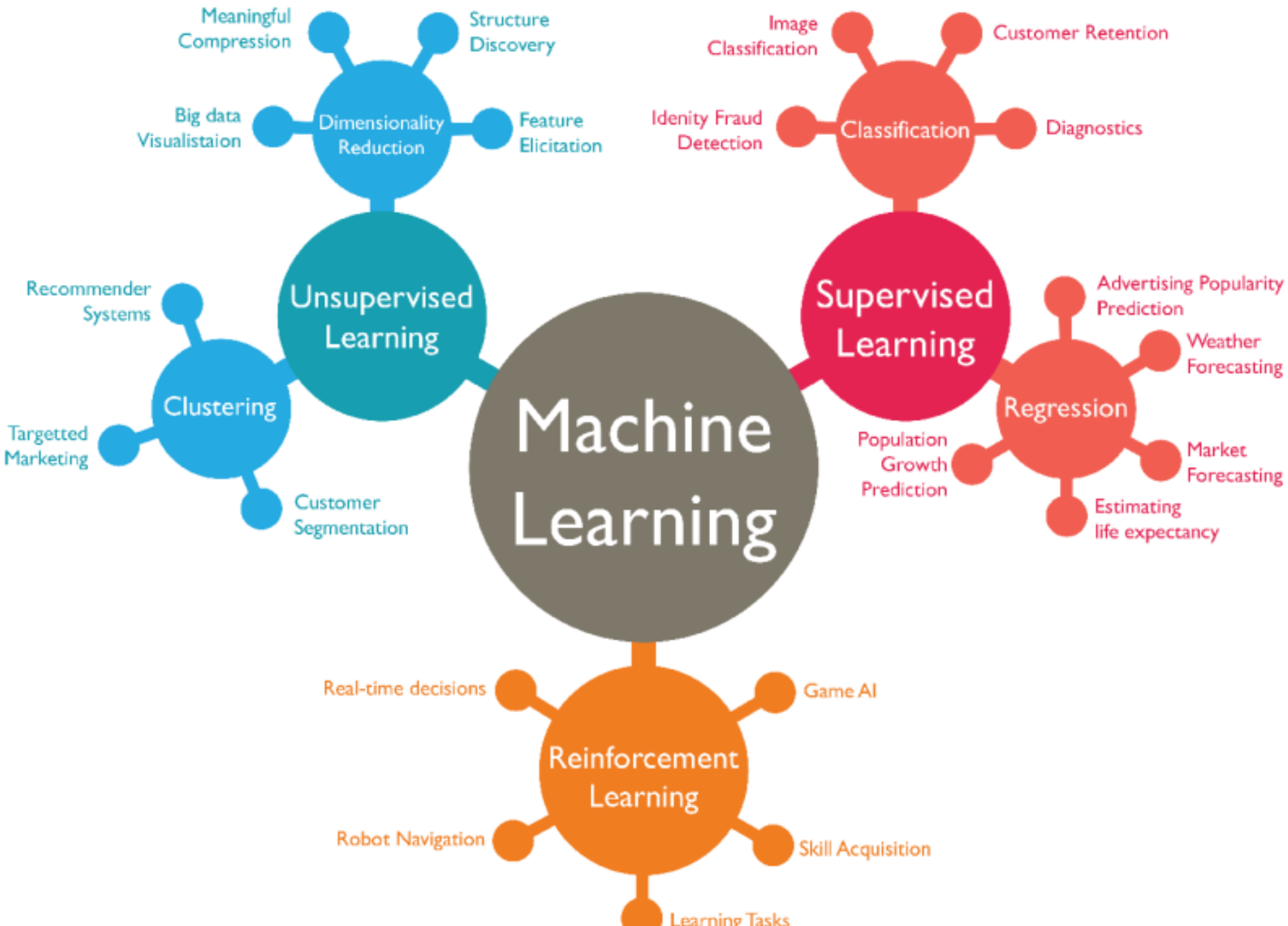
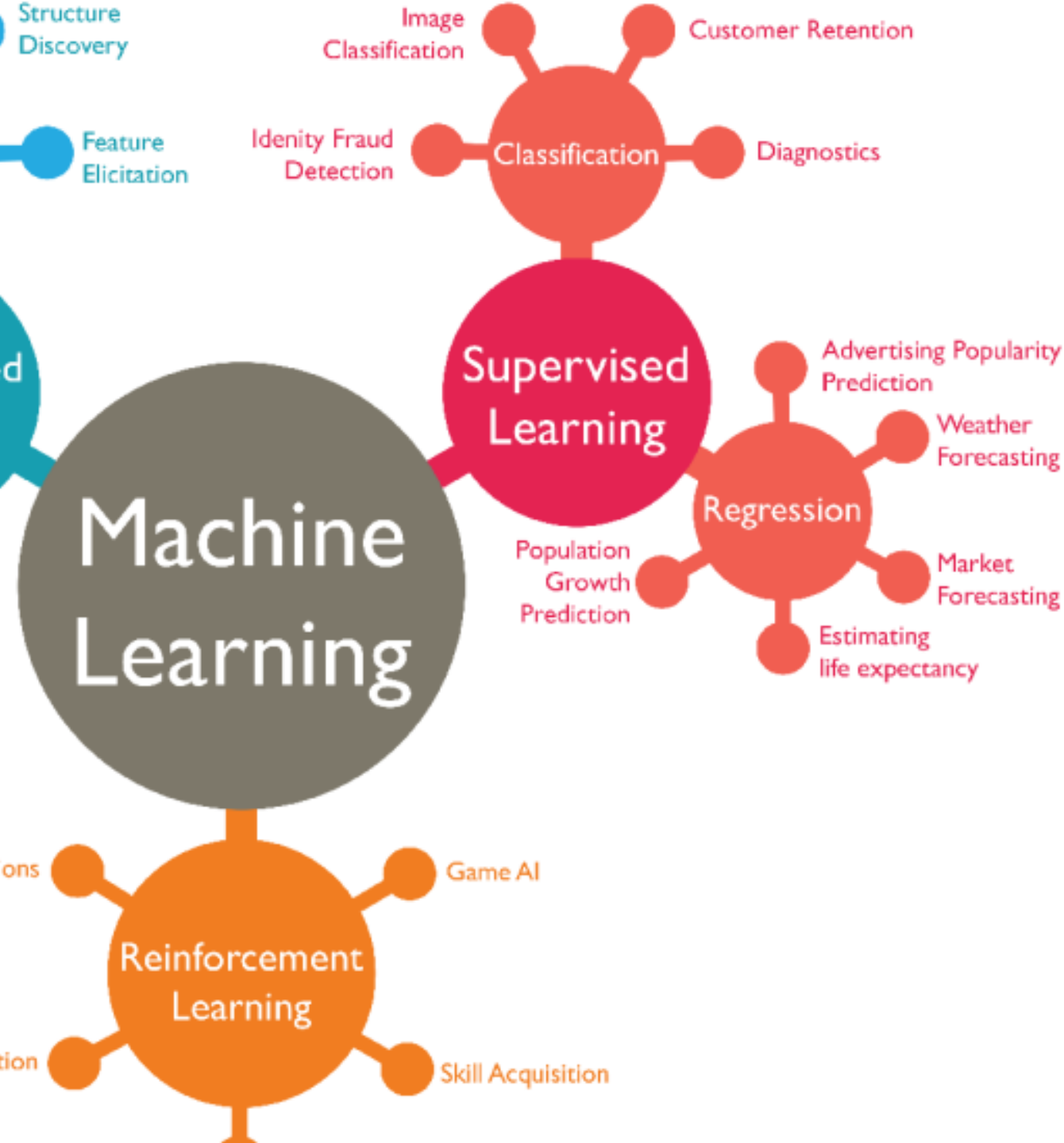


## **02** Machine Learning algorithm



출처: <https://www.slideshare.net/awahid/big-data-and-machine-learning-for-businesses>



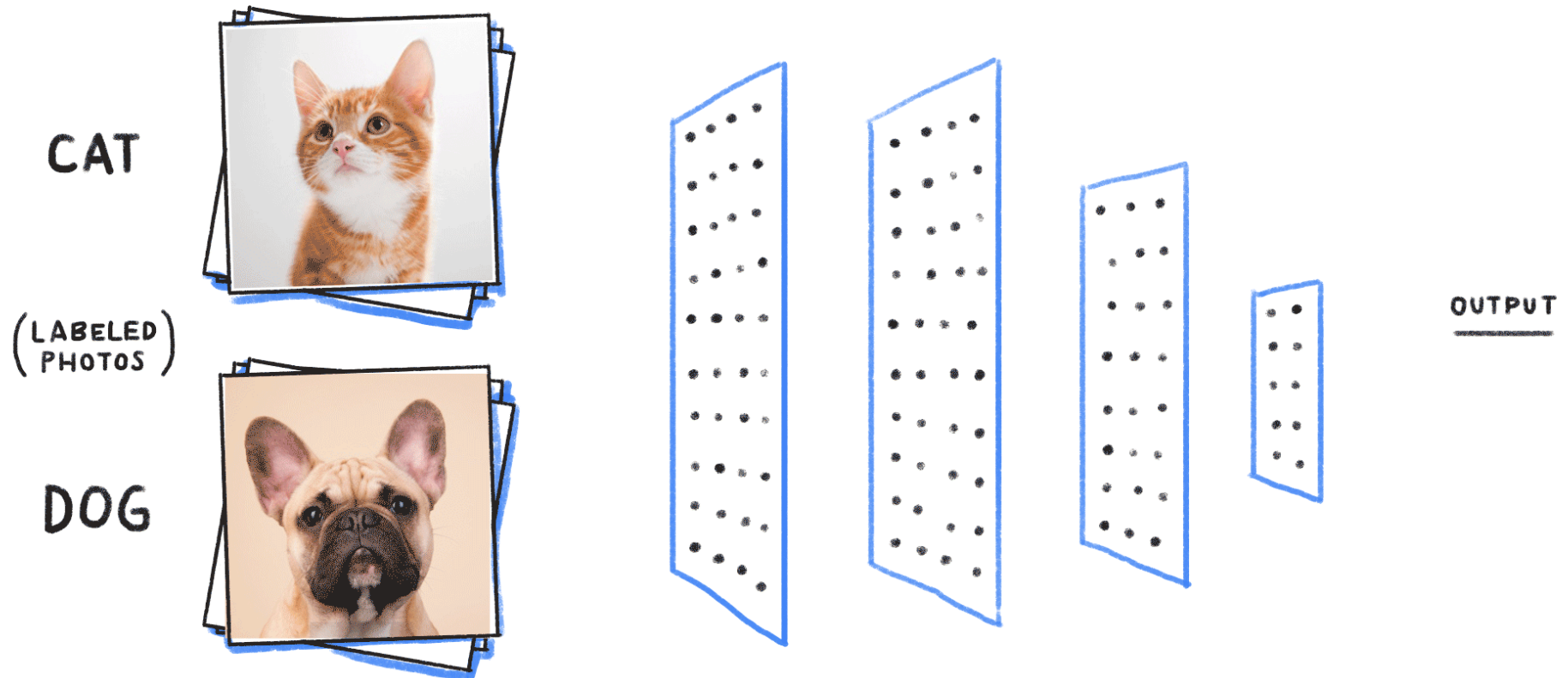


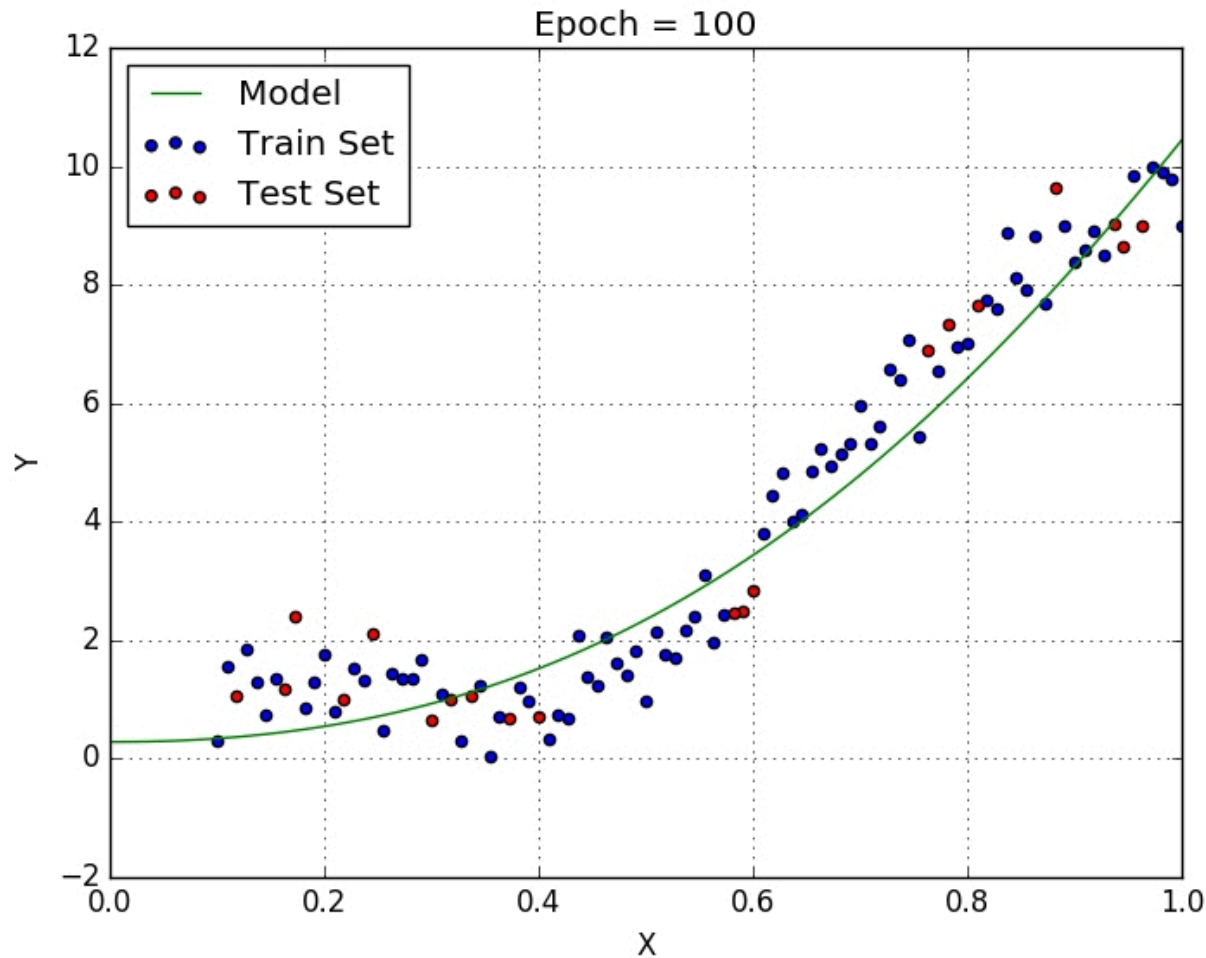
□ Supervised Learning  
(지도학습, 감독학습)

- 문제와 정답 제공  
: Feature & Label

- 예측, 추정, 분류

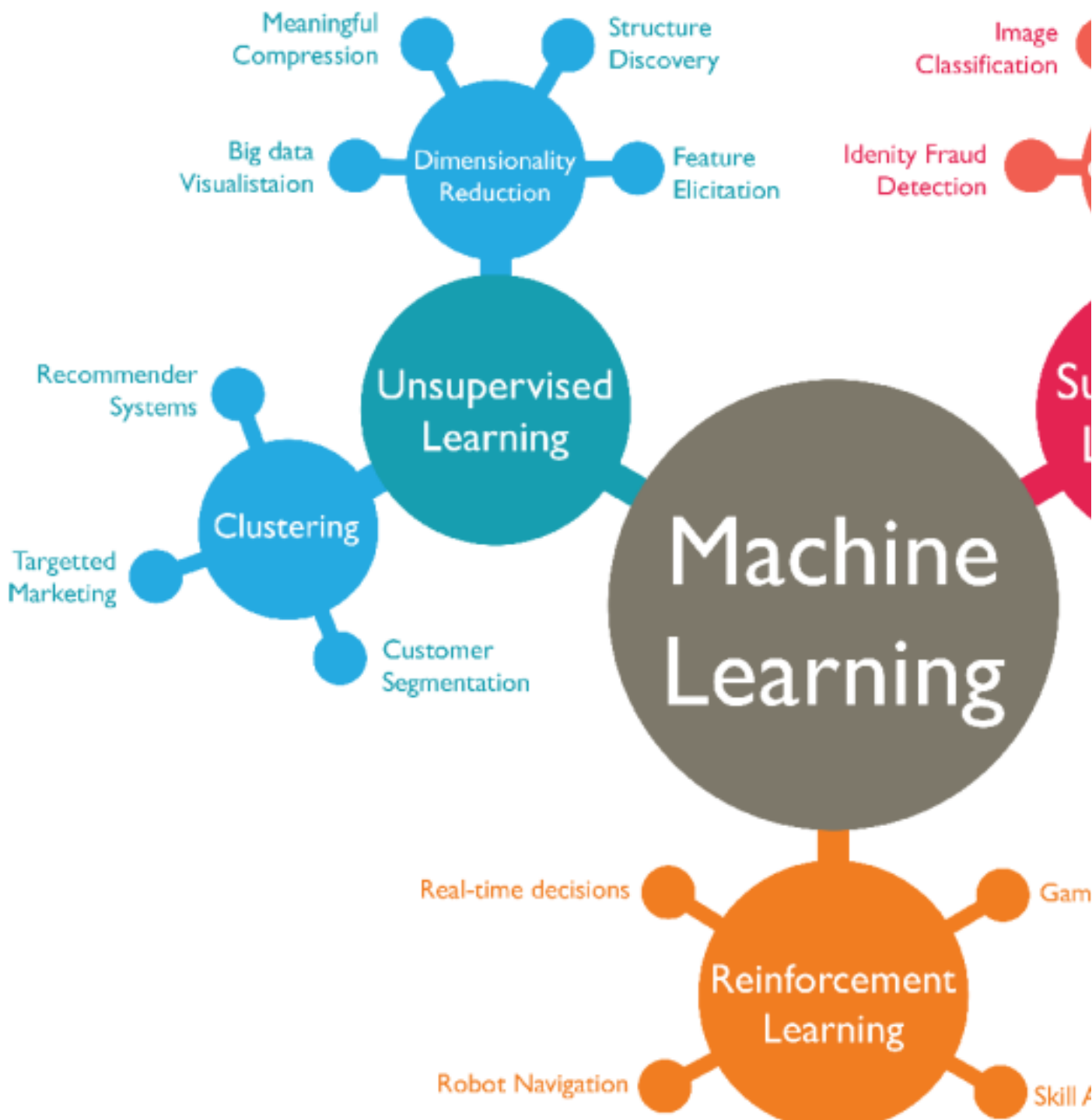
- Regression
- Forecast
- Classification





키에 따른 신발 사이즈  
시간에 따른 커피 소비량  
햇빛 노출 시간과 주근깨 개수  
달 위상에 따른 주요 도시의 범죄 소  
기온과 인터넷 쇼핑 장바구니 물품 수

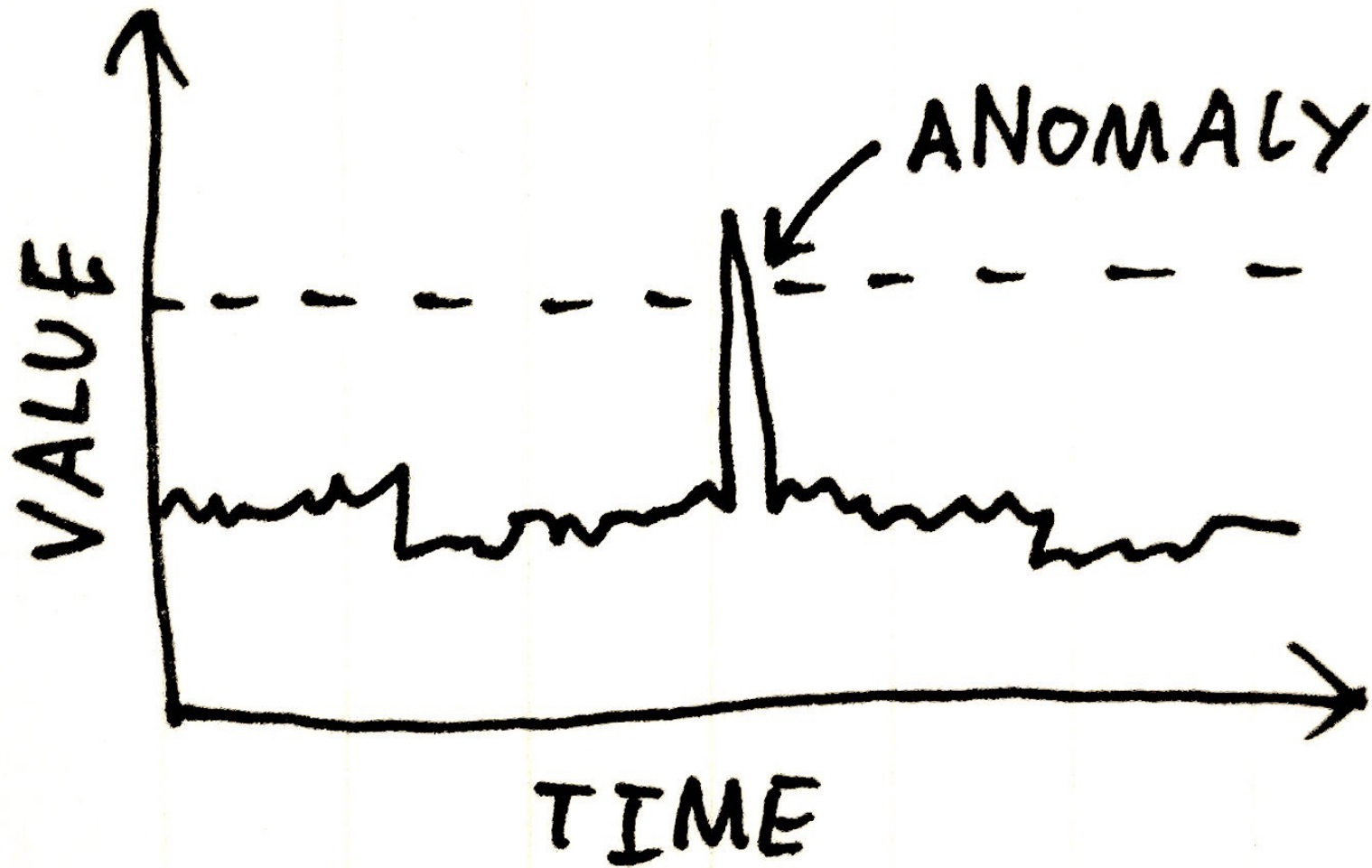
·  
·  
·  
·



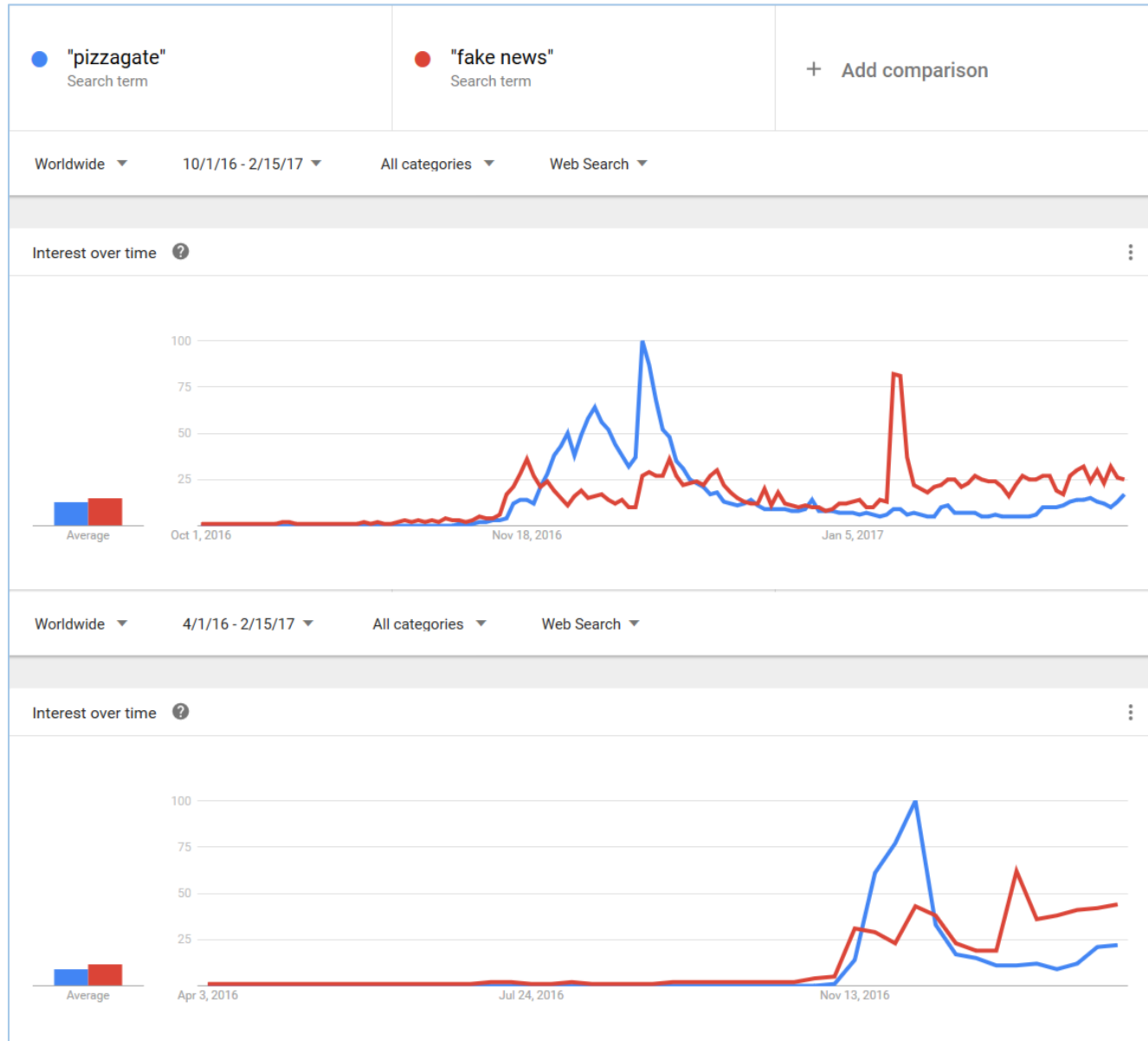
## □ Unsupervised Learning (비지도학습)

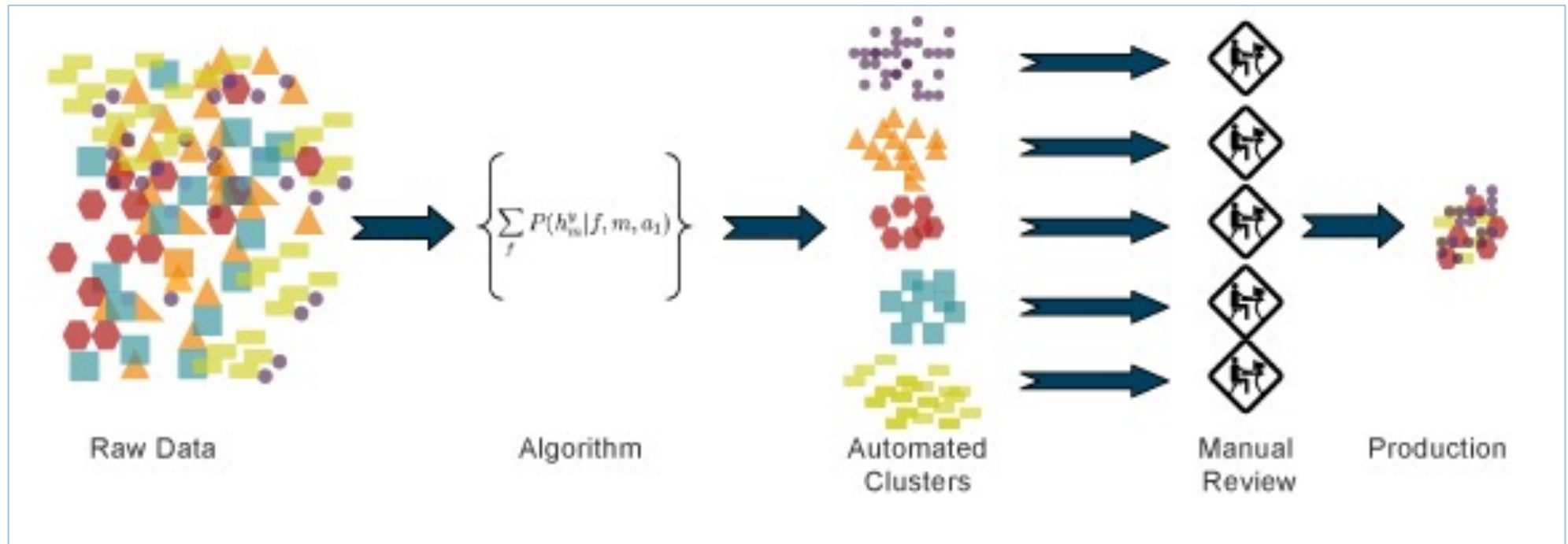
- 문제만 제공  
: Feature

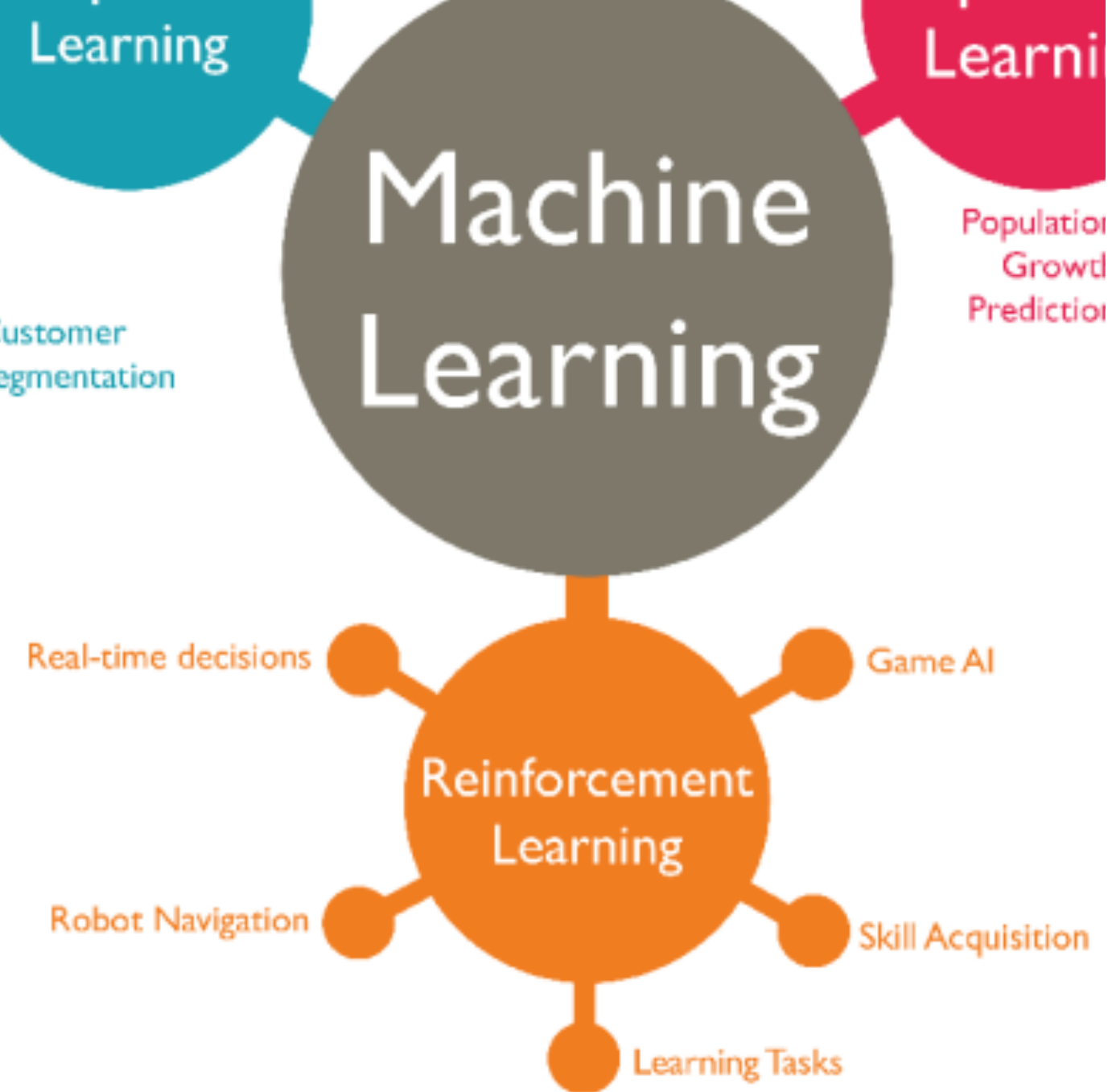
- 패턴/구조 발견  
그룹화  
· Anomaly  
· Clustering







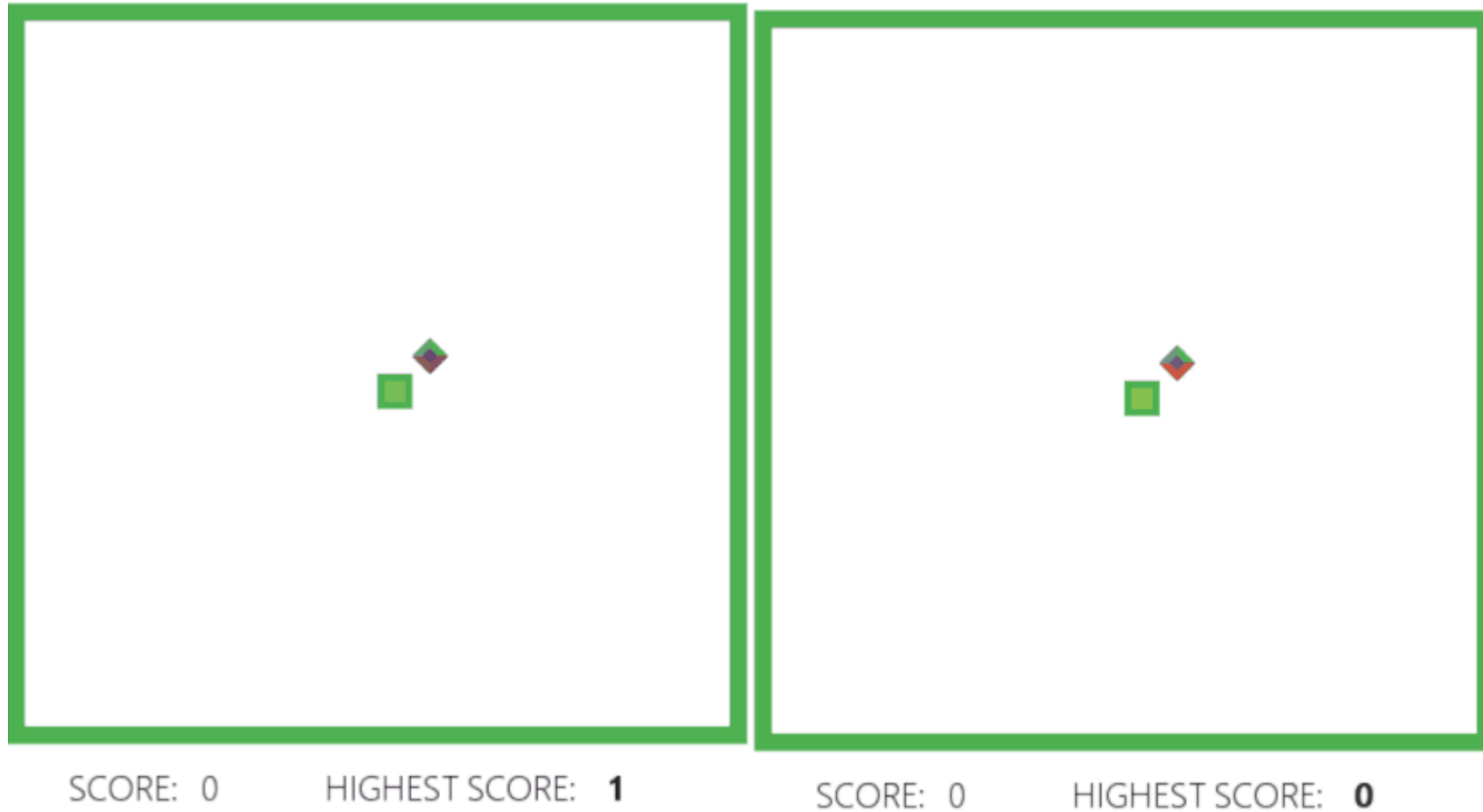




□ Reinforcement Learning  
(강화학습)

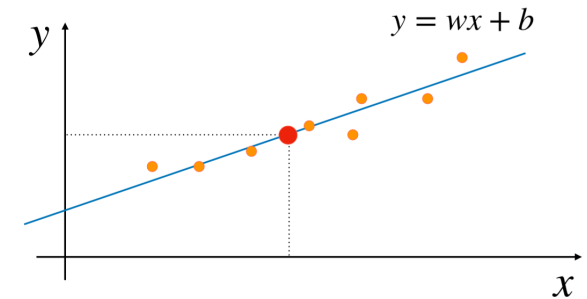
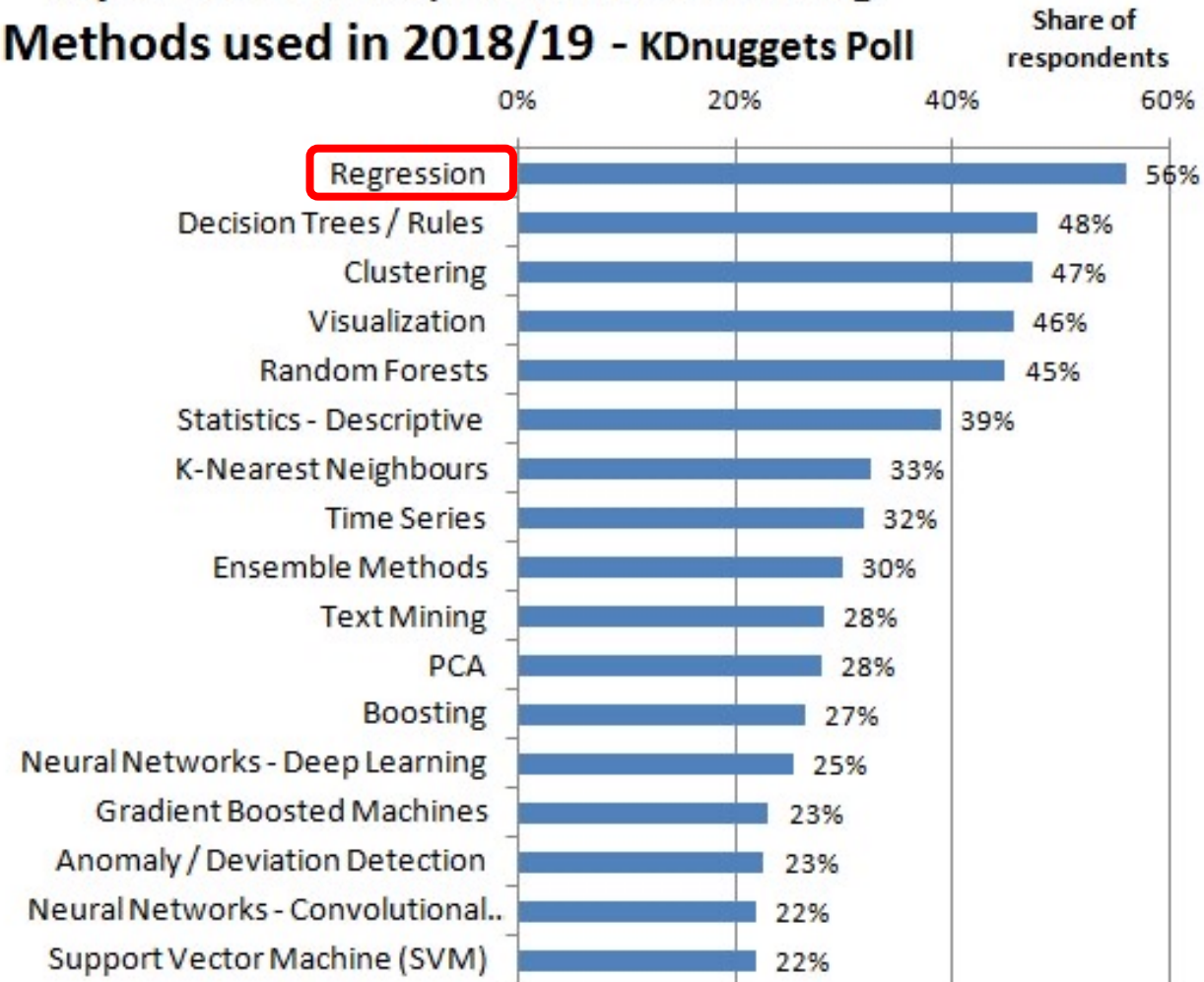
- 보상(Reward) 제공  
인과관계가 중요  
게임(알파고), 로봇







## Top Data Science, Machine Learning Methods used in 2018/19 - KDnuggets Poll



# Summary

What is the Machine Learning

- 1** Machine Learning 은 AI, Machine Learning 그리고 Deep Learning으로 발전됨
- 2** Machine Learning은 지도학습, 비지도학습 그리고 강화학습 등으로 나누어 짐
- 3** 알고리즘의 종류 : Regression, Classification, Anomaly, Clustering 등



**감사합니다.**