



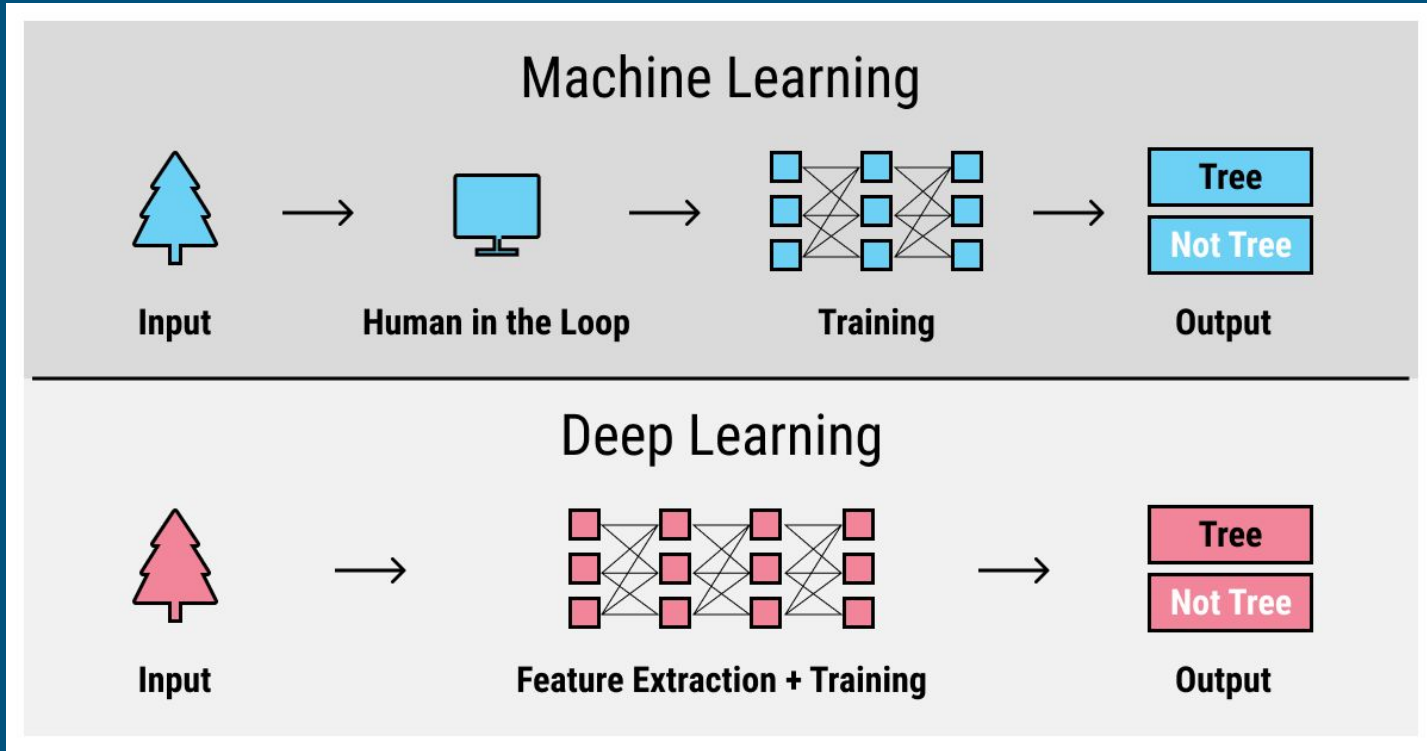
Machine Learning



Dr. Dongchul Kim

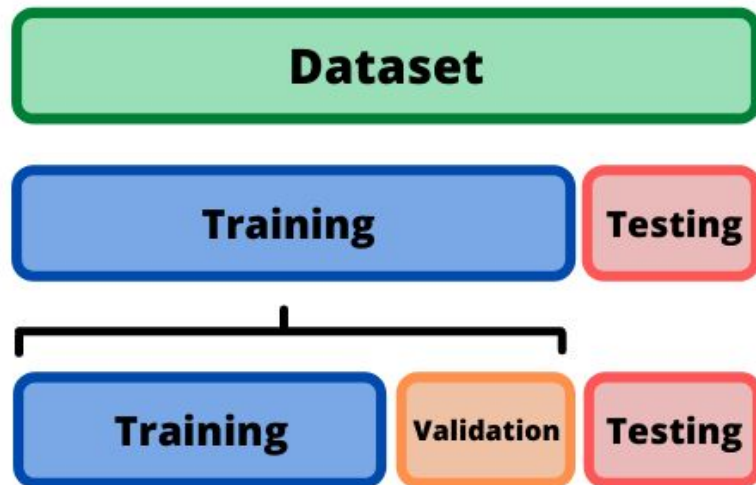


Machine Learning



Data

- Example
 - <https://archive.ics.uci.edu/>
- Train and Test
- Feature and Sample



Types of Learnings

01

Supervised learning

- you are given examples with correct labels and are asked to label new examples

02

Unsupervised learning

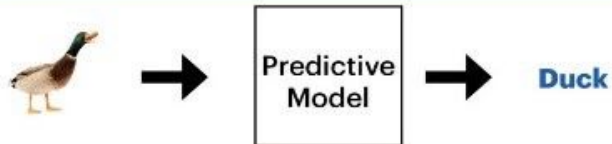
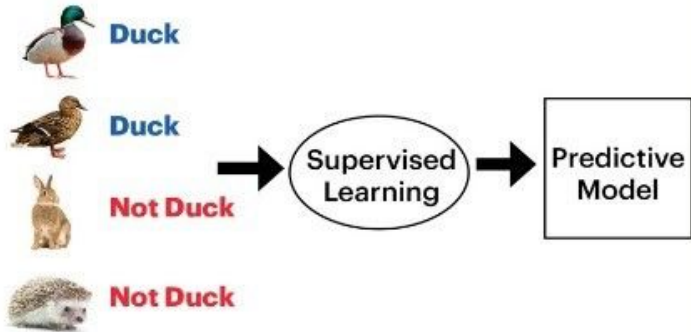
- you are given only unlabeled examples

03

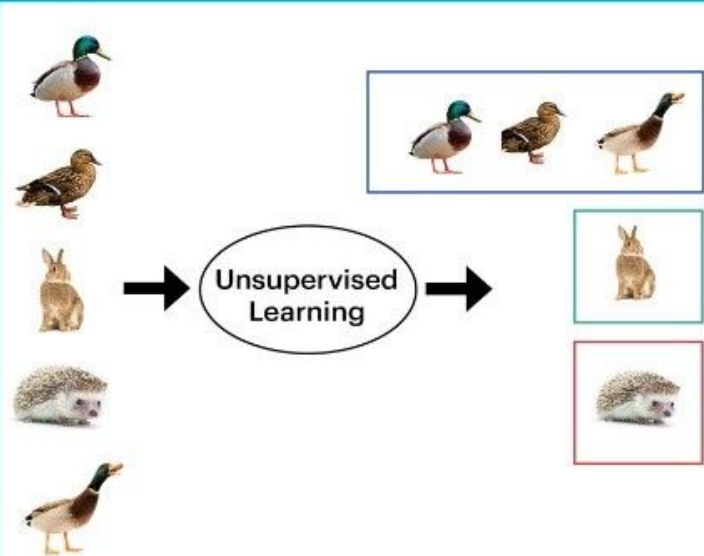
Reinforcement learning

- you are given the overall performance (as opposed to labels to particular examples)

Supervised Learning (Classification Algorithm)



Unsupervised Learning (Clustering Algorithm)



Examples

- Example of Supervised and Unsupervised learning data sets
 - <https://archive.ics.uci.edu/>
- Example of Reinforcement learning
 - <https://www.youtube.com/watch?v=V1eYniJ0Rnk>

Supervised Learning



Regression



What will be the temperature tomorrow?

84°



Fahrenheit

Classification



Will it be hot or cold tomorrow?

COLD

HOT



Fahrenheit