

Machine Learning

Machine Learning is the field of study that gives computers the ability to learn without being explicitly programmed.

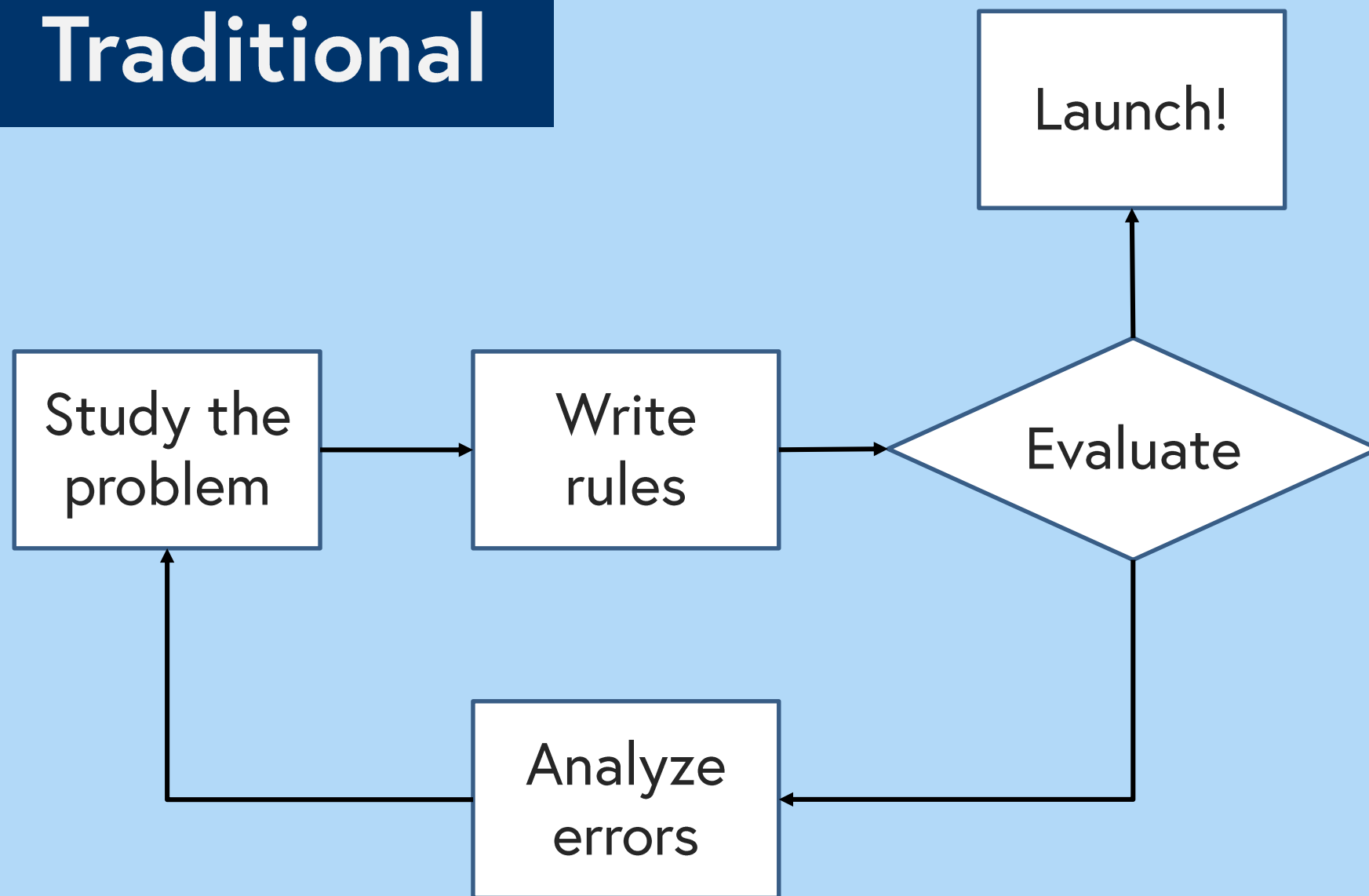
Arthur Samuel, 1959

A computer program is said to learn from experience E with respect to some task T and some performance measure P , if its performance on T , as measured by P , improves with experience E .

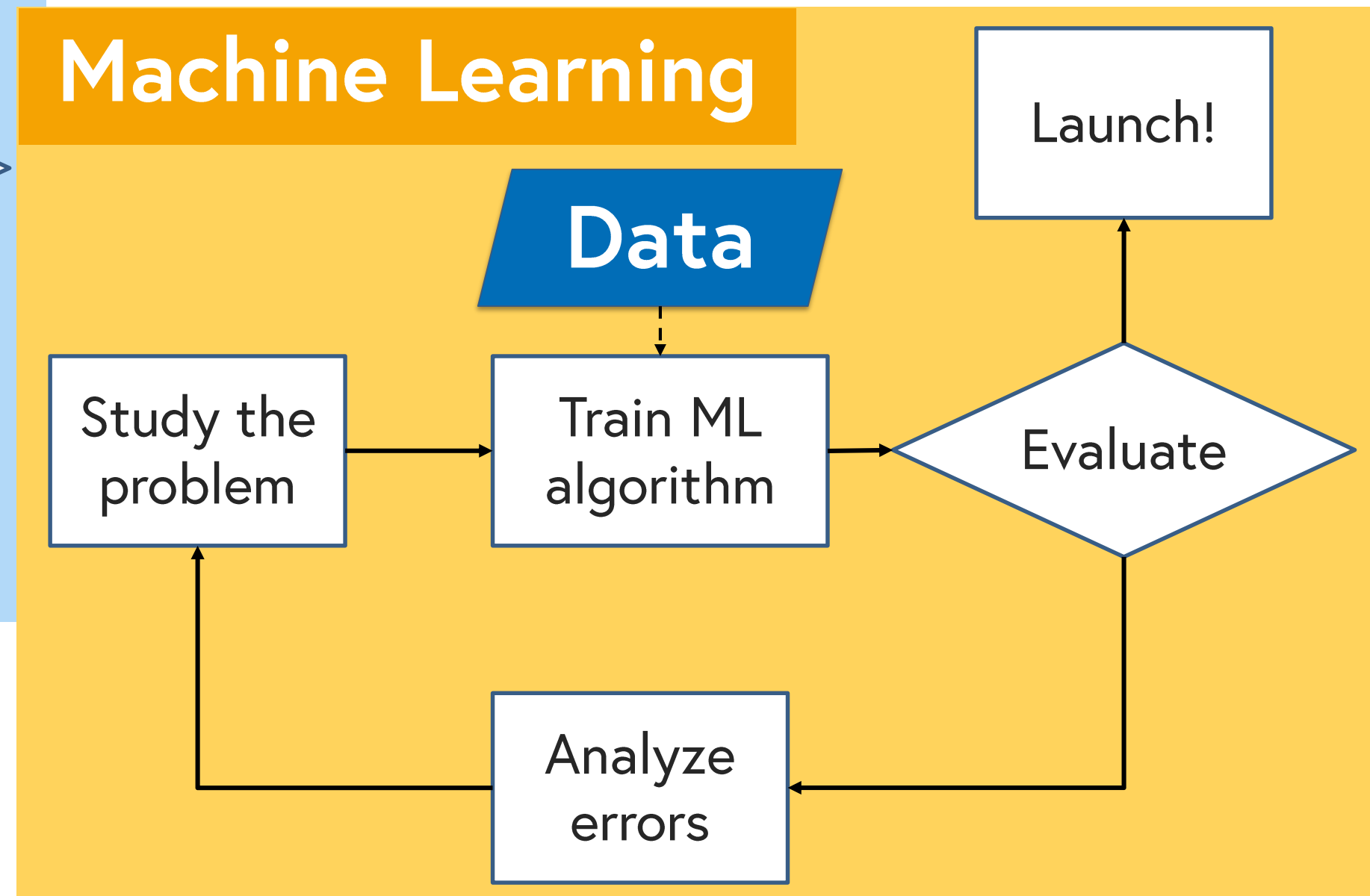
Tom Mitchell, 1997

Why to Use Machine Learning?

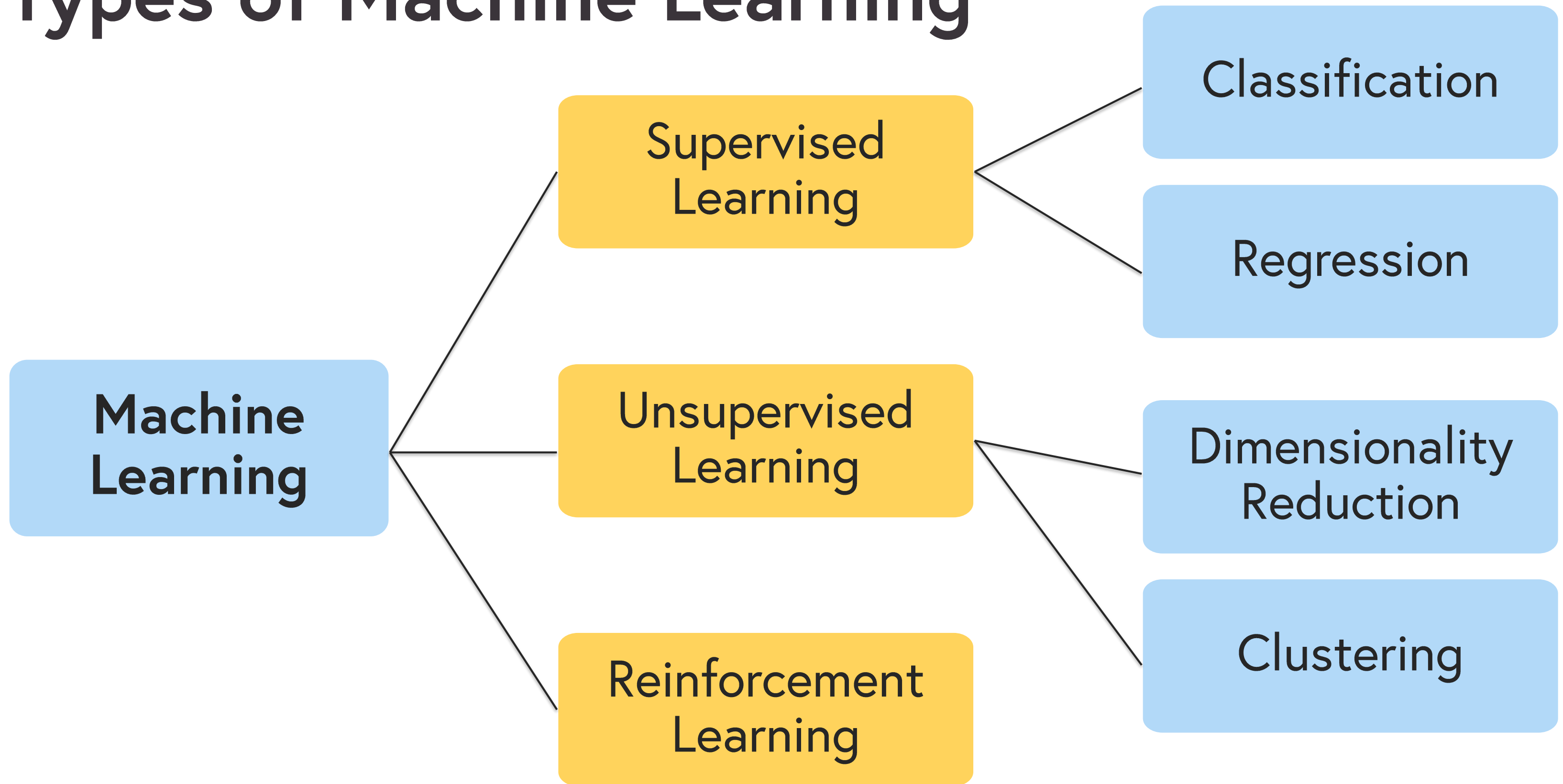
Traditional



Machine Learning

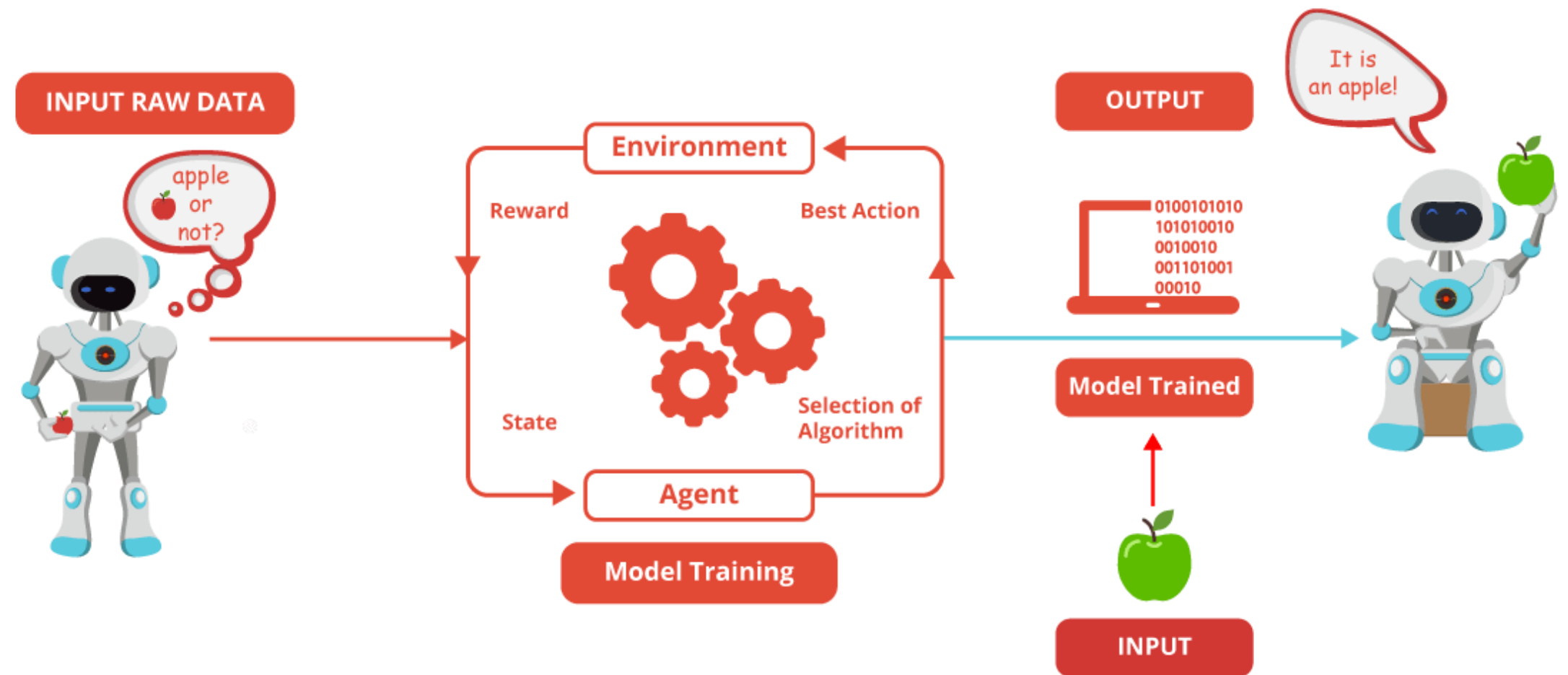


Types of Machine Learning



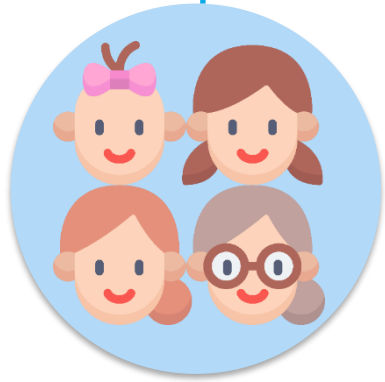
Supervised Learning

- In supervised learning, the training data you feed to the algorithm includes the desired solutions, called labels
 - Classification
 - Regression



Machine Learning Regression

Predicting



Age of a person



Stock price of a company



The medical cost