

Data Science

What is data science?

Data science, also known as data-driven science, is an interdisciplinary field of scientific Methods, process, algorithms and systems of extract knowledge or insights from data in various forms, either structured or unstructured, similar to data mining

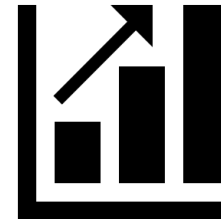
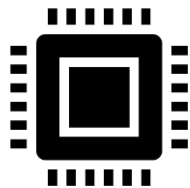
Machine Learning

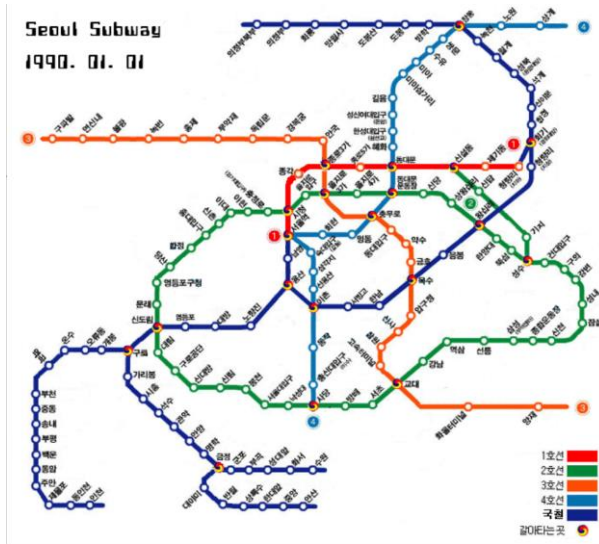
Why??

More simple

More Fast

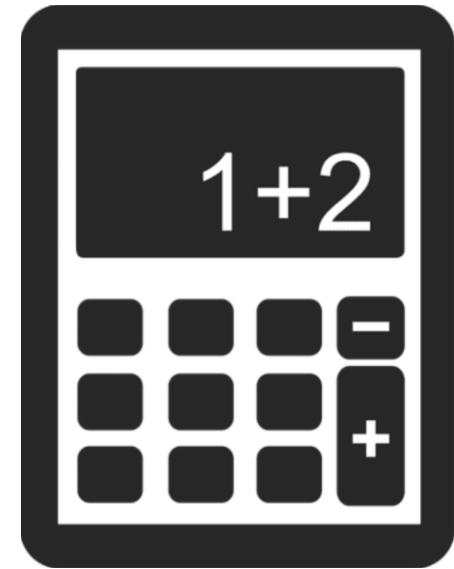
More exactly





Shortest path problem

When?



Arithmetic operation problem



Useful

기존 솔루션으로는 많은 수동 조정과 규칙이 필요한 문제
전통적인 방식으로는 전혀 해결 방법이 없는 복잡한 문제

유동적인 환경

복잡한 문제와 대량의 데이터에서 통찰 얻기

When machine Learning is needed

A pattern exists

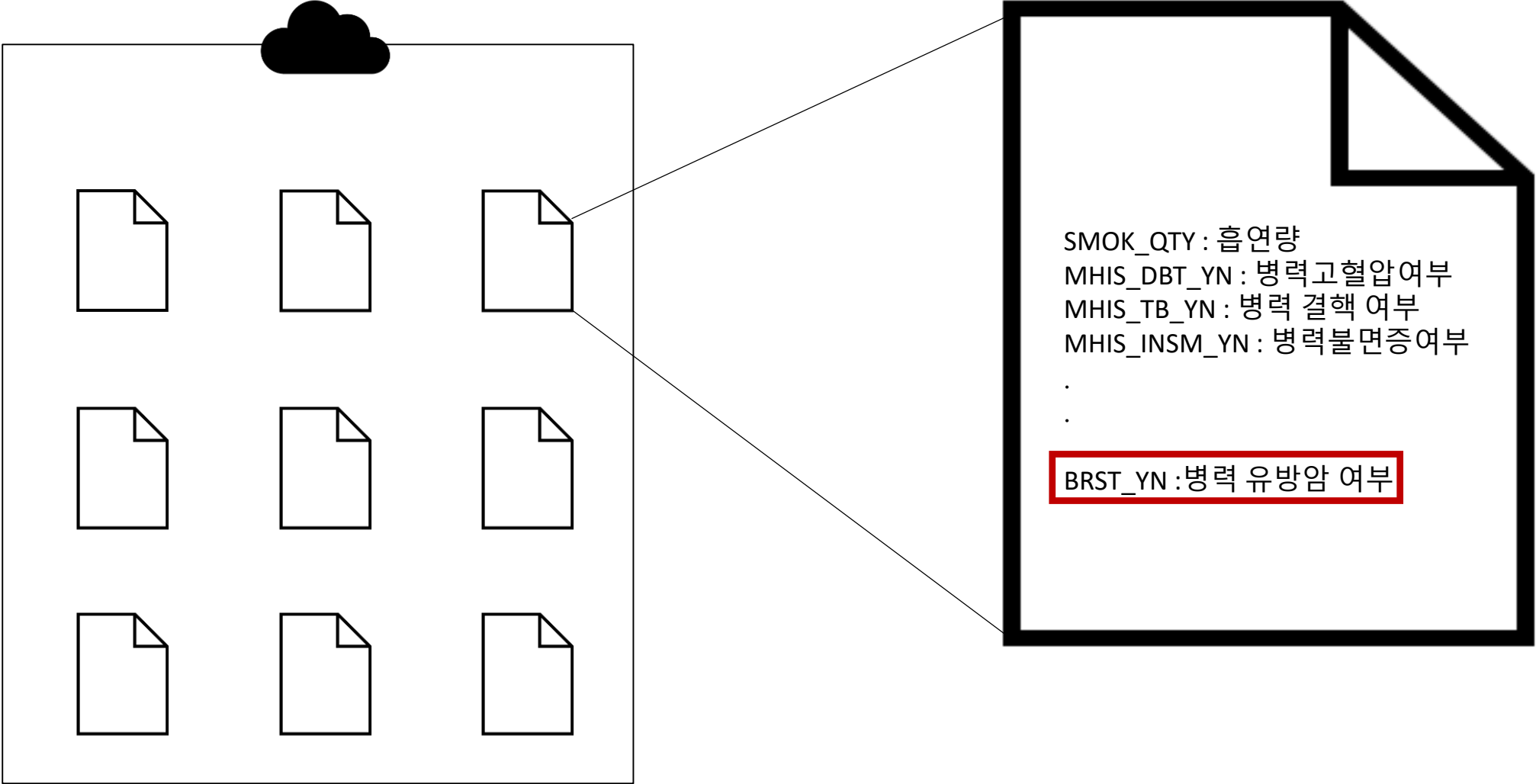
We cannot pin it down mathematically

We have data on it

Supervised Learning

Supervised Learning

EMR



Supervised Learning

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graph TD; A[Supervised Learning] --> B[Classification]; A --> C[regression]; B --> D[One class classification]; B --> E[Binary classification]; B --> F[Multiclass classification]; C --> G[Univariate regression]; C --> H[Multivariate Regression];
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Classification

regression

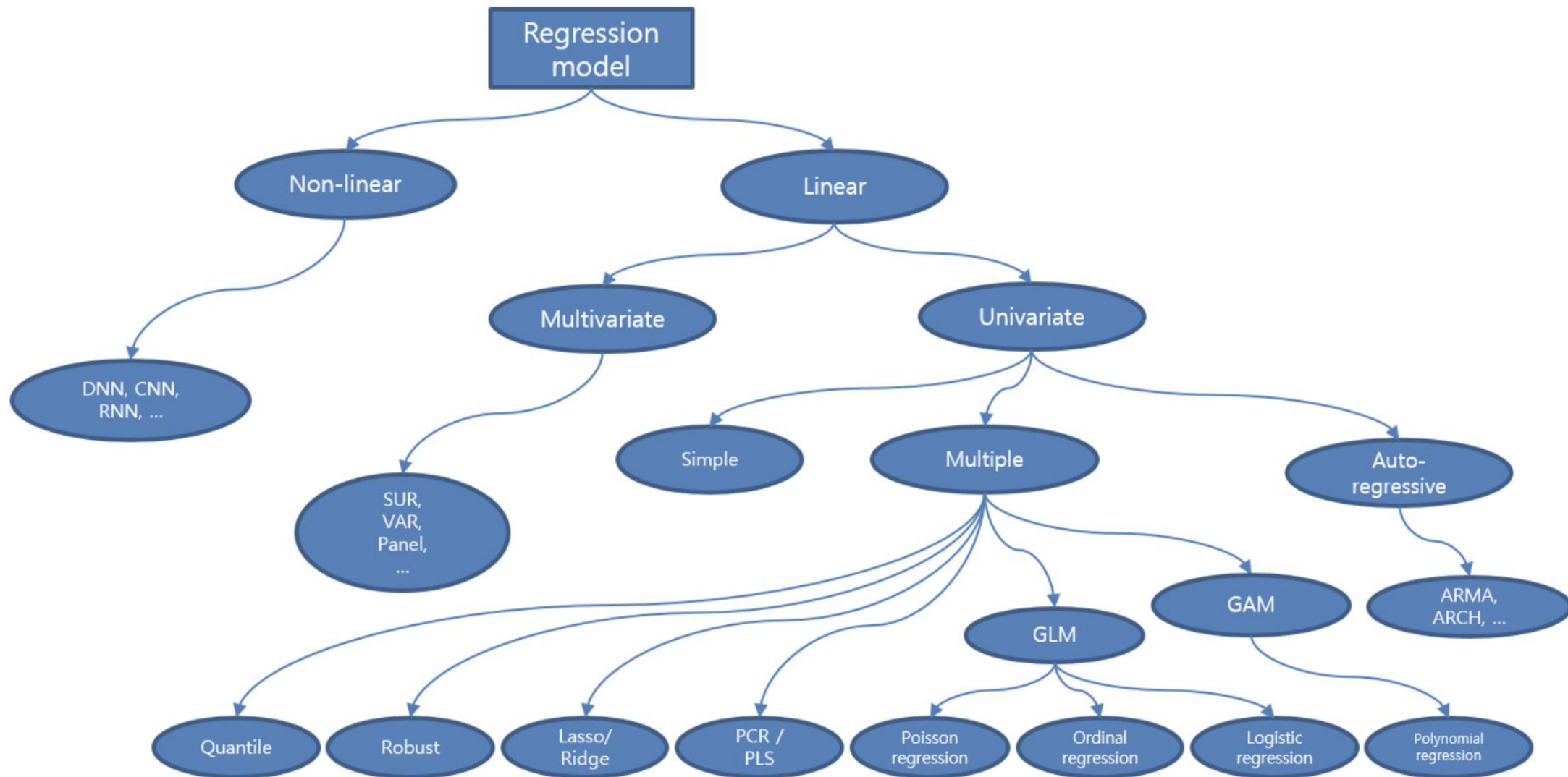
One class
classification

Binary
classification

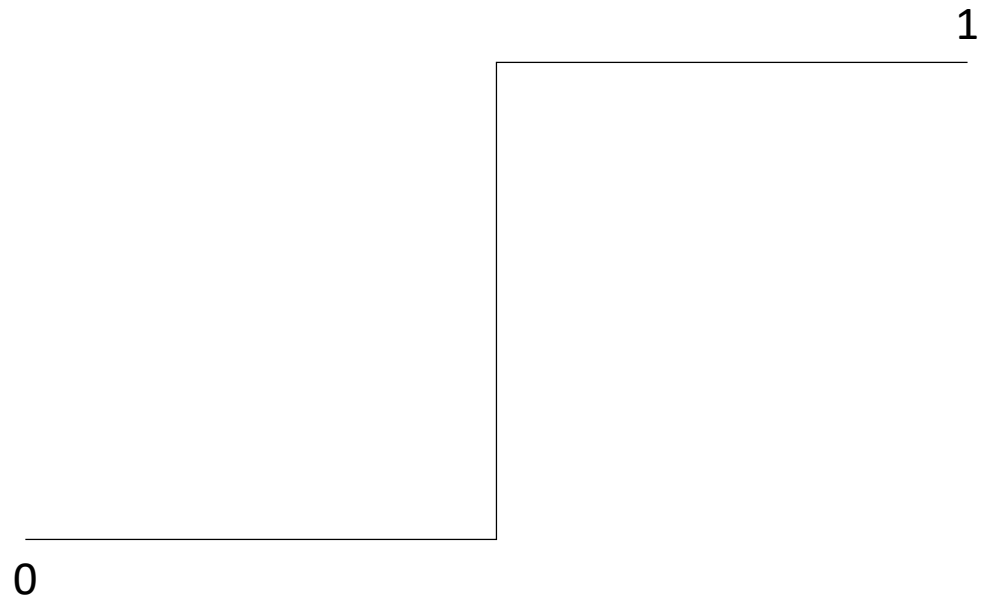
Multiclass
classification

Univariate
regression

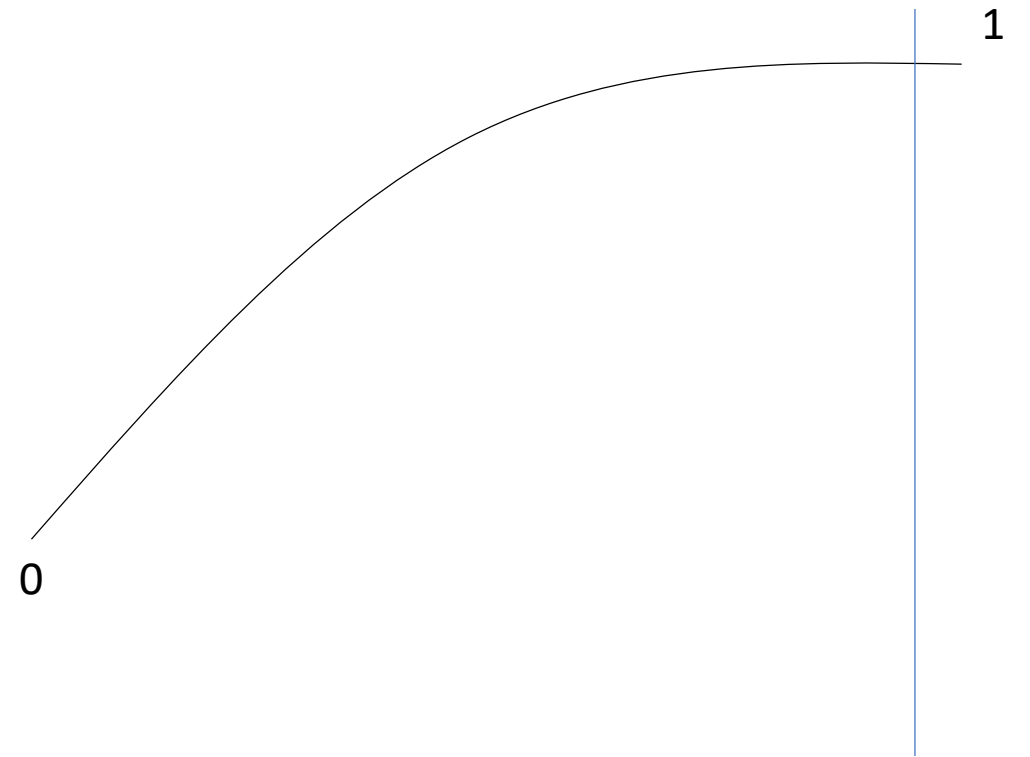
Multivariate
Regression



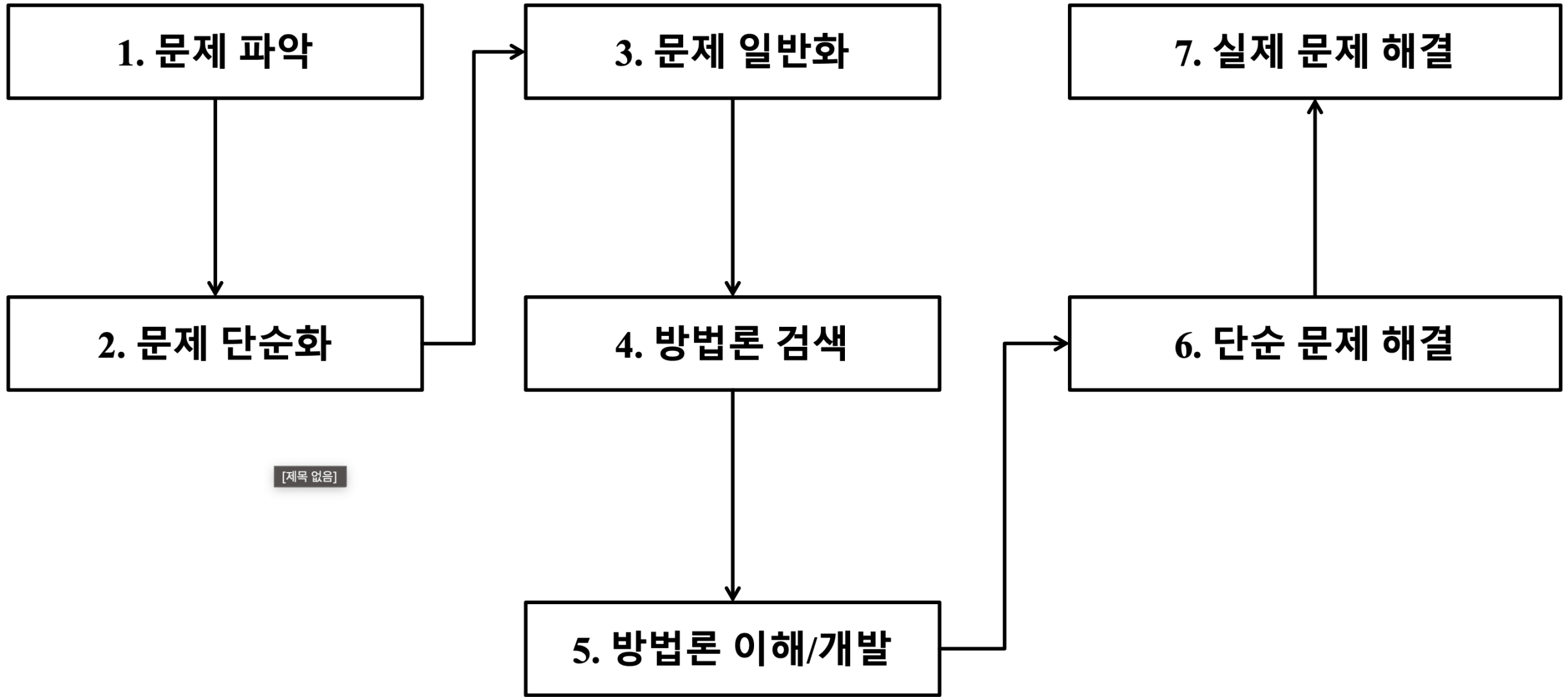
classification



regression



How Data scientist solve the problem?



[제목 없음]

