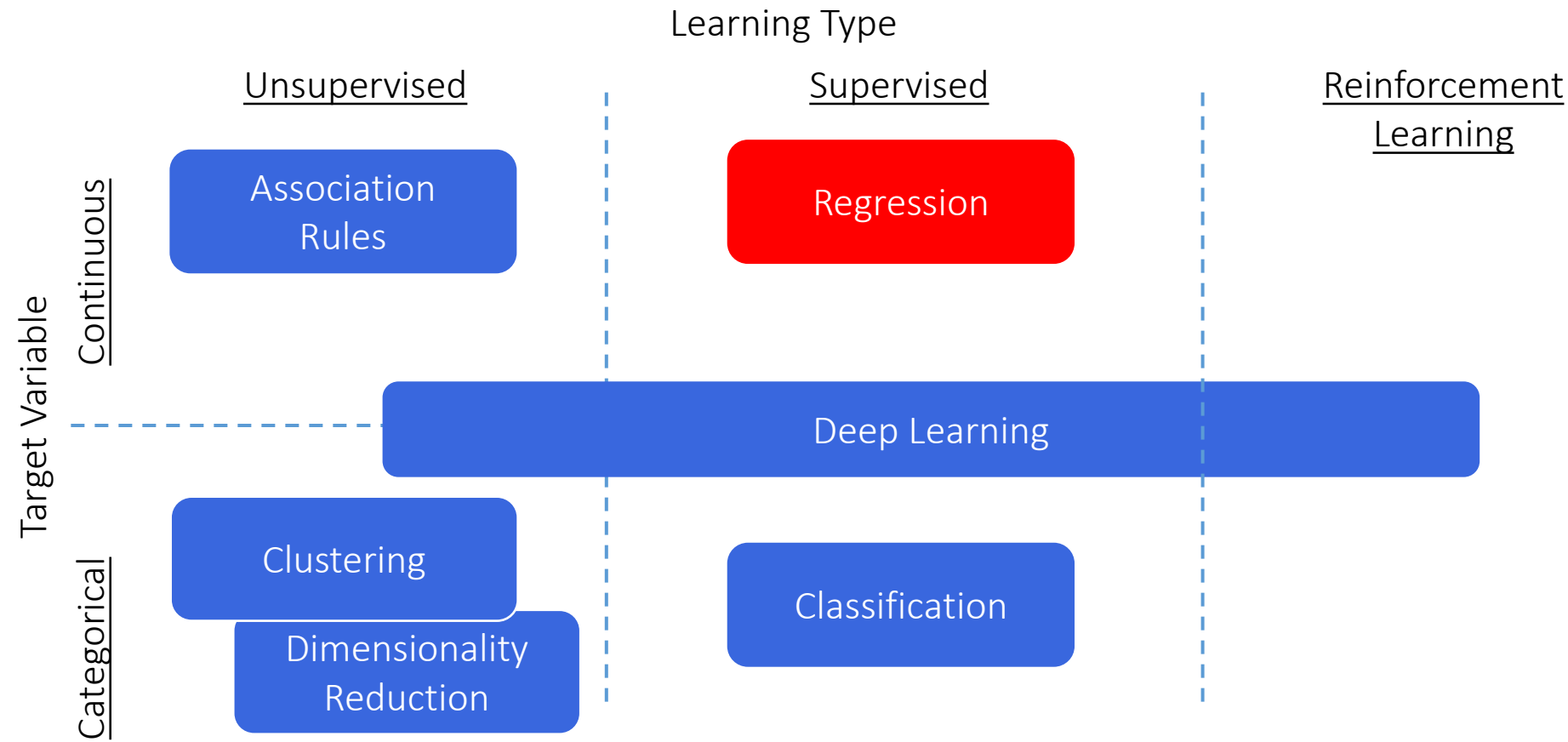


Regression Types 101

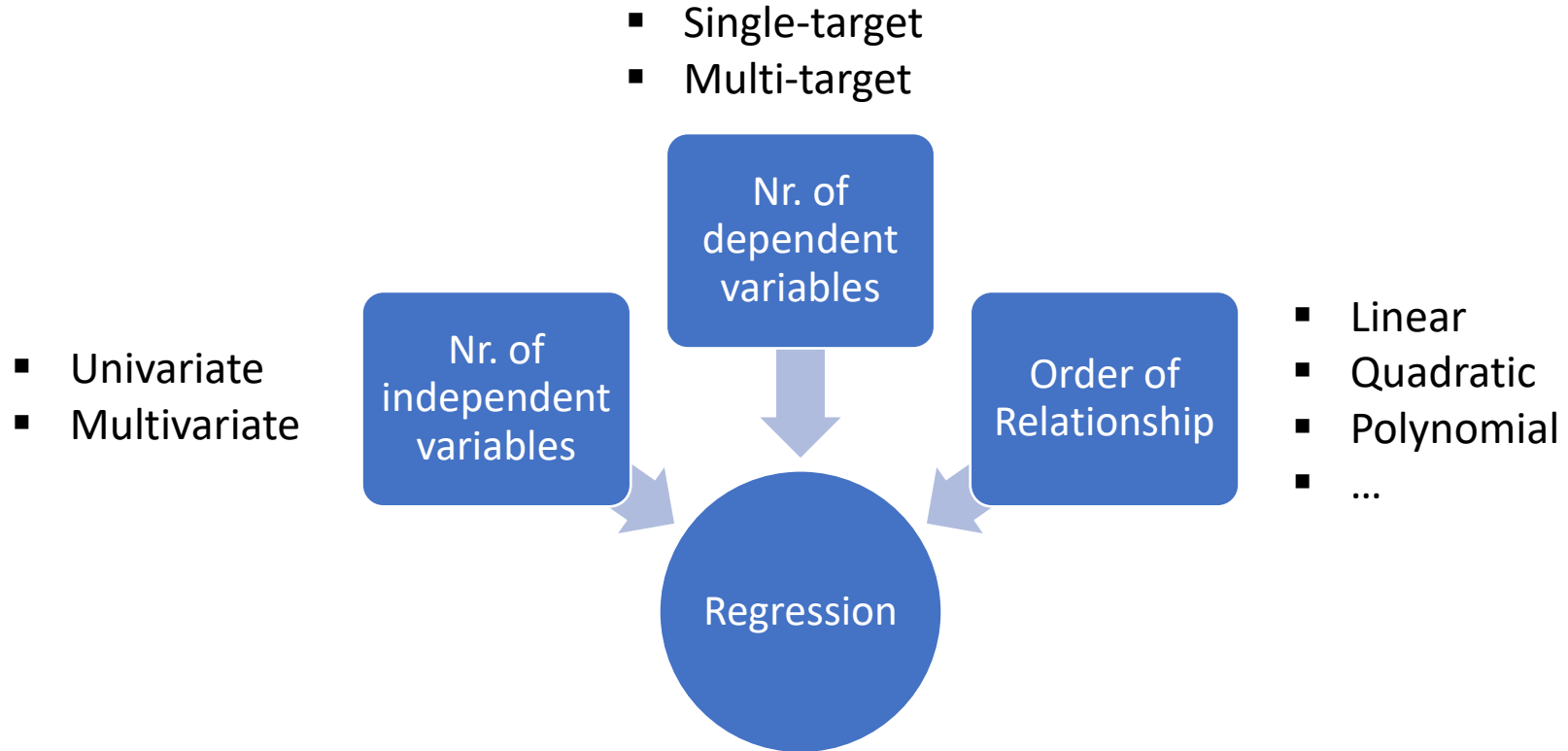
Regression Types

Machine Learning Types



Regression Types

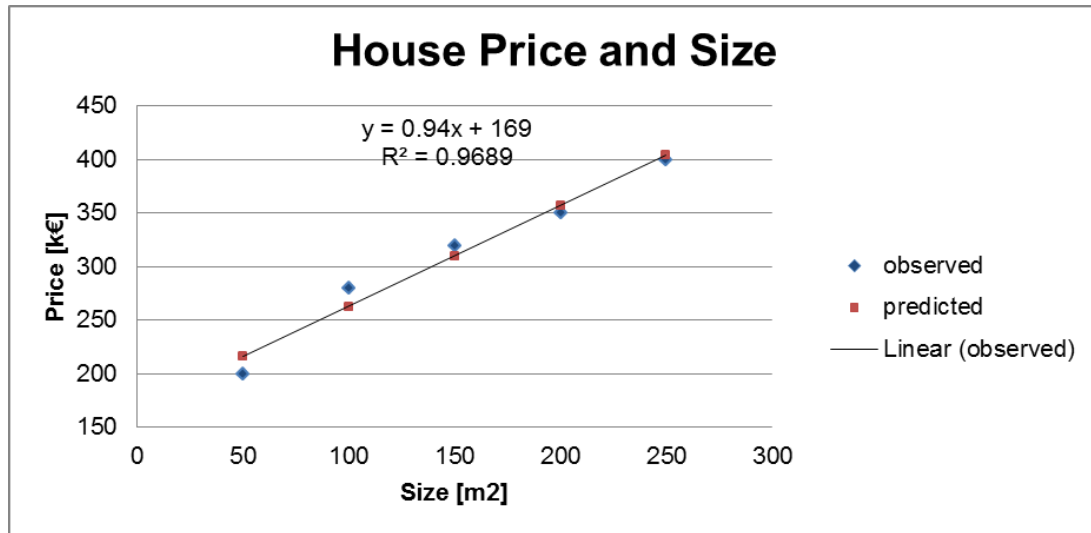
Overview



Regression Types

Univariate Linear Regression

- Univariate Linear Regression
 - One independent variable
 - One dependent variable
 - Linear relationship



1 independent
variable

Observation:

1
2
...

N

Size

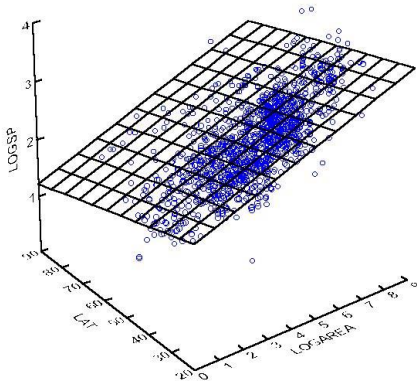
1 dependent
variable (target)

Price

Regression Types

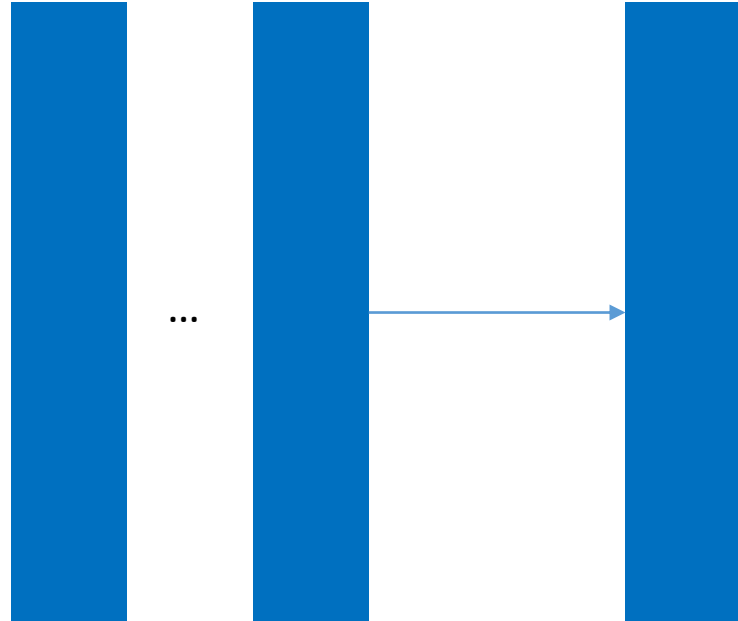
Multivariate Linear Regression

- Multivariate Linear Regression
- More than one independent variables
- One dependent variable
- Linear relationship



>1 independent
variable

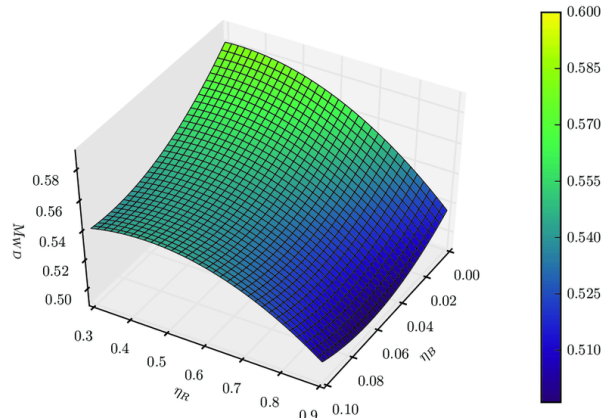
1 dependent
variable (target)



Regression Types

Multivariate Higher-Order Regression

- More than one independent variables
- One dependent variable
- Quadratic or some other higher-order relationship



>1 independent
variable



...



1 dependent
variable (target)



Source: https://www.researchgate.net/figure/Surface-plot-of-the-multivariate-quadratic-regression-fit-Note-that-the-maximum-and_fig3_325517988

Regression Types

Multiple Target Regression

- More than one independent variables
- **More than one dependent variable**
- Can be implemented with Deep Learning

>1 independent variable

>1 dependent variable (target)

