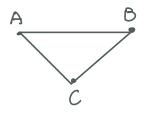
Data Representation:

- (Records (Name, age, balance)
- (Nodes connected by edges) -> Adjacency matrix, adjacency (ist 2. Graphs



- 3. Images (Pixel of 0 or 1)
- 4. Text
- 5. Strings (DNA sequence -> list of words)
- 6. Time Series (data at specific interval of time)

Types of learning

- 1. Supervise learning -> create model and make predictions

 - Regressionclassification
- 2. un supervise learning · clustering

Data

· n data points, m features

Feature Space

Distance

- · dissimilary function
- large value from distance -> dissimilar
 easy to understand and graph

Minkowski Distance
$$(P=2)$$
 $L_P(\kappa, \gamma) = \left(\sum_{i=1}^{d} |\kappa_i - \gamma_i|^P\right)$