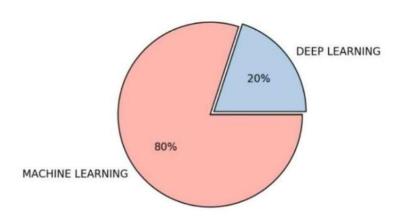
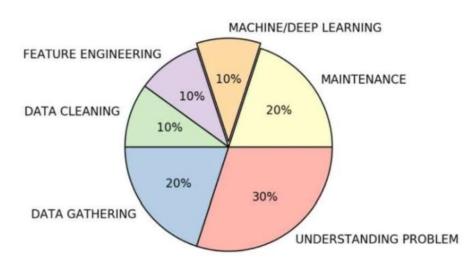
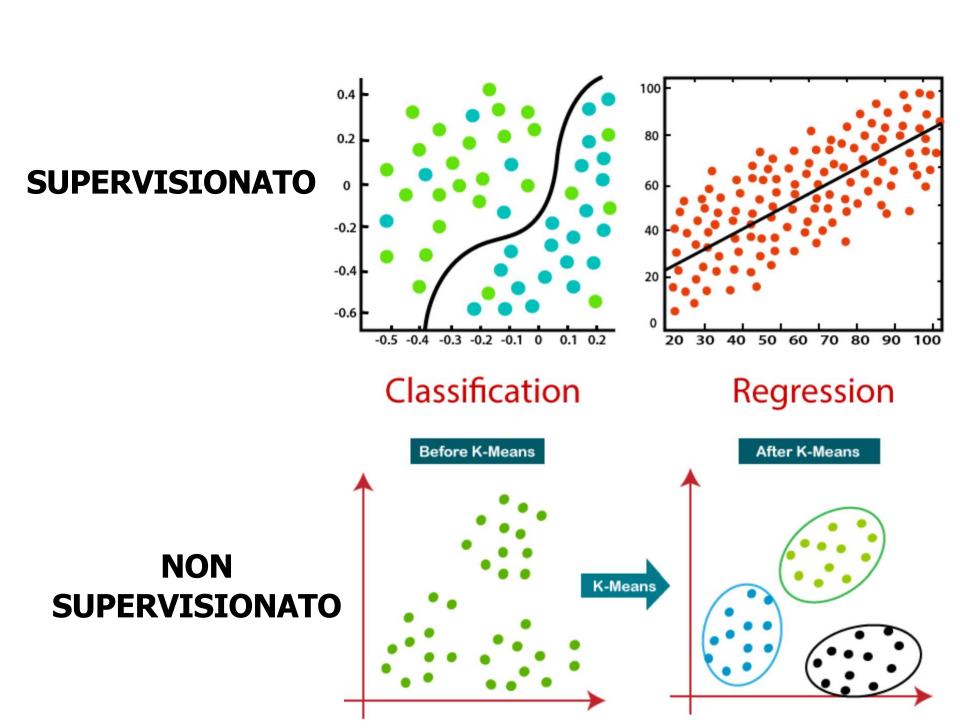
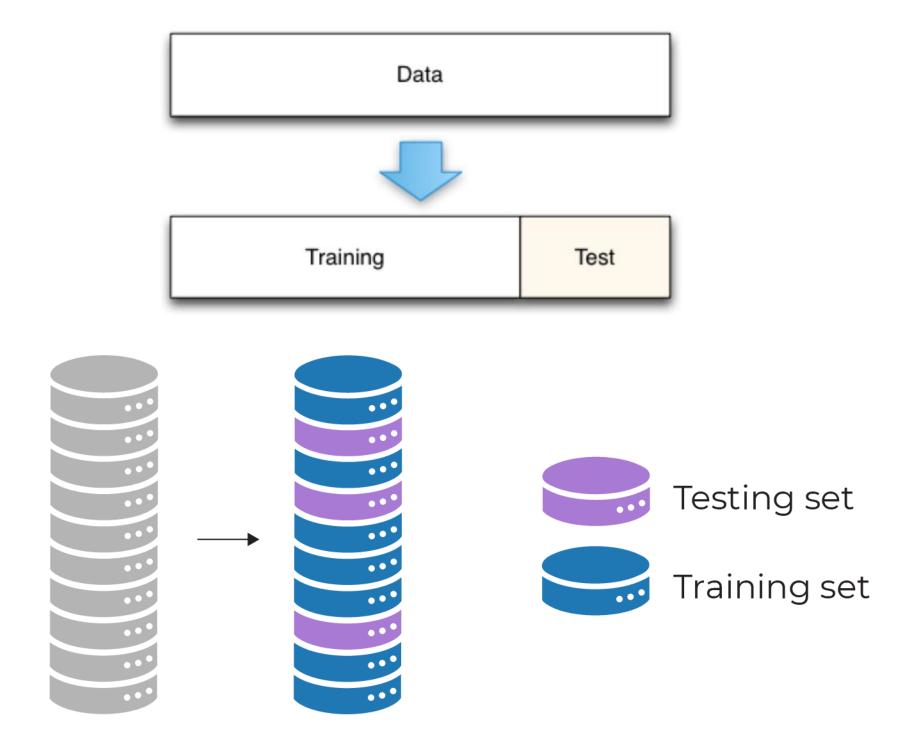
EXPECTATION



REALITY

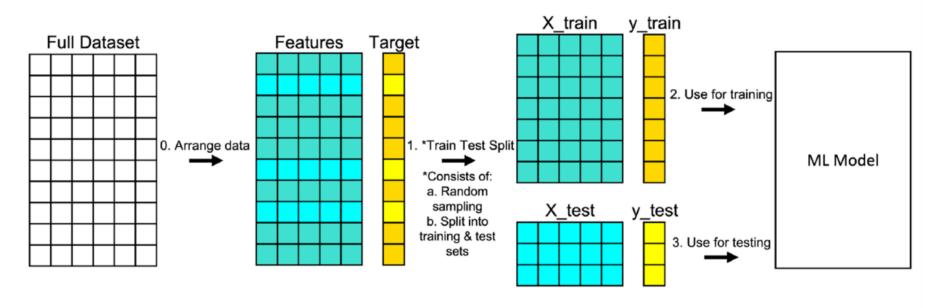


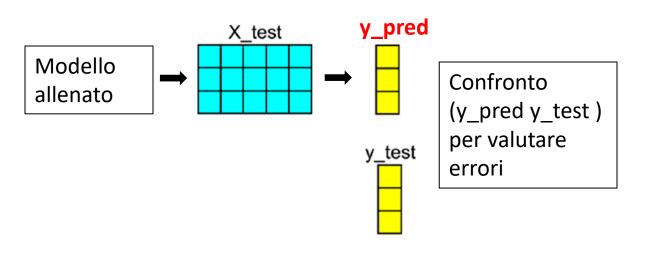




INPUT = FEATURES

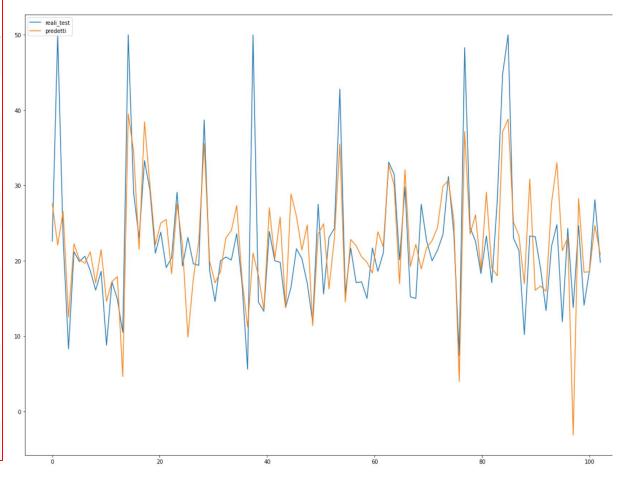
OUTPUT = TARGET

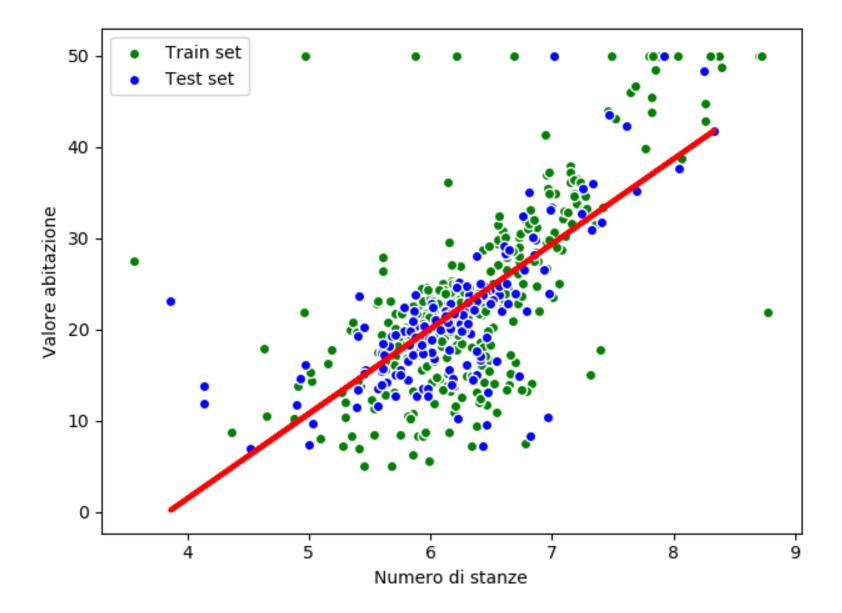




| predetti | reali_test |
|-----------|-------------------------------------|
| 27.609031 | 22.6 |
| 22.099034 | 50.0 |
| 26.529255 | 23.0 |
| 12.507986 | 8.3 |
| 22.254879 | 21.2 |
| | |
| 28.271228 | 24.7 |
| 18.467419 | 14.1 |
| 18.558070 | 18.7 |
| 24.681964 | 28.1 |
| 20.826879 | 19.8 |
| | 27.609031 22.099034 26.529255 |

| | predetti | reali_test |
|-----|-----------|------------|
| 0 | 27.609031 | 22.6 |
| 1 | 22.099034 | 50.0 |
| 2 | 26.529255 | 23.0 |
| 3 | 12.507986 | 8.3 |
| 4 | 22.254879 | 21.2 |
| | | |
| 97 | 28.271228 | 24.7 |
| 98 | 18.467419 | 14.1 |
| 99 | 18.558070 | 18.7 |
| 100 | 24.681964 | 28.1 |
| 101 | 20.826879 | 19.8 |





Introducendo opportune assunzioni si ottiene il modello di regressione lineare semplice.

Assunzione 1:

$$Y_i = \beta_0 + \beta_1 x_i + \varepsilon_i$$
 per ogni osservazione i=1,...n

Assunzione 2:

Le \mathcal{E}_i sono variabili casuali indipendenti con valore atteso $E(\mathcal{E}_i) = 0$ e varianza costante $V(\mathcal{E}_i) = \sigma^2$ per ogni i=1,...,n

Assunzione 3:

I valori x_i della variabile esplicativa X sono noti senza errore