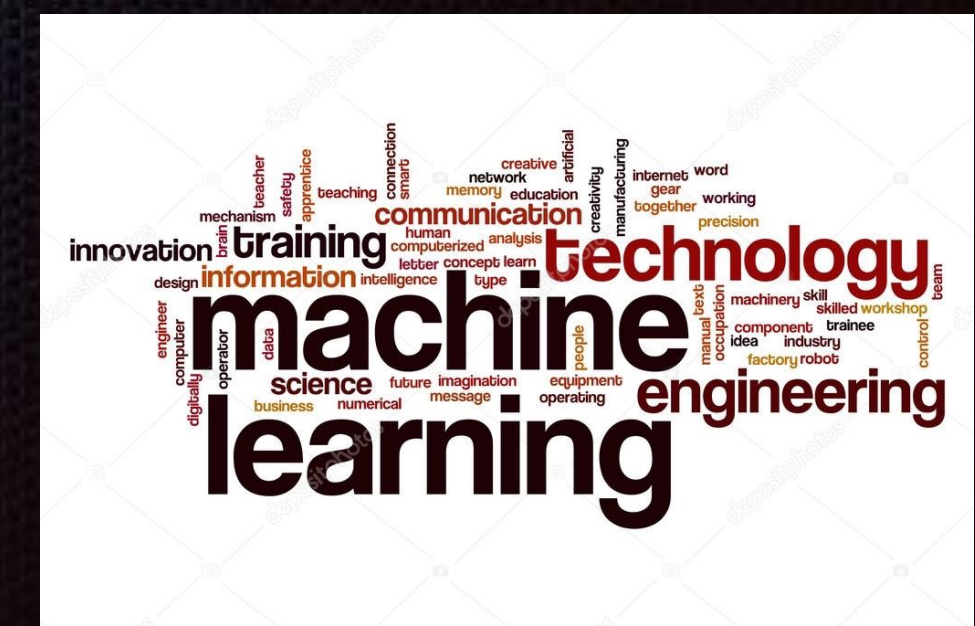


# Machine learning

- ✧ Artificial intelligence is about learning, reasoning and acting
- ✧ We are still trying to get the learning part down well
  - ✧ Learning innate patterns in data
  - ✧ Learning how an outcome is influenced by different factors
  - ✧ Learning to predict the future by observing the past
  - ✧ Learning to discern what is real and what is artifact





# Machine learning success stories

- ✧ Breast cancer therapeutics
  - ✧ Bioinformatics used to understand innate differences in different types of BrCa, leading to very successful targeted therapeutics
  - ✧ Tamoxifen, Herceptin, Fluoracil, Paclitaxel

