Despite limitations, AI has (and will be) very impactful

- Sentient machines are probably not imminent

- Cumulative (and maybe individually small) effect of AI (specifically ML) will bring about impactful change in our research, work, and every day lives [1]

- AI will soon be "just another tool in the toolbox"

[1] Moore's Law for Everything

Machine learning
Teaching computers to learn from data

- Machine learning (ML) is a subset of AI

- ML allows us to build models that "learn" patterns from historical data so that it can be applied to future data

- Three classical branches of machine learning

  - Supervised learning

  - Unsupervised learning

  - Reinforcement learning