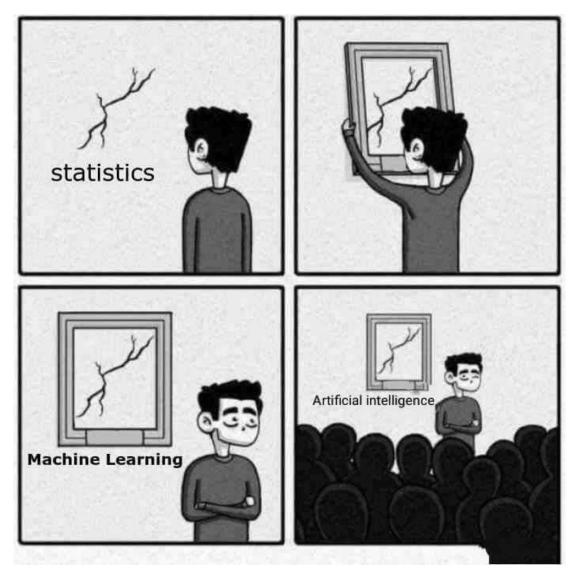
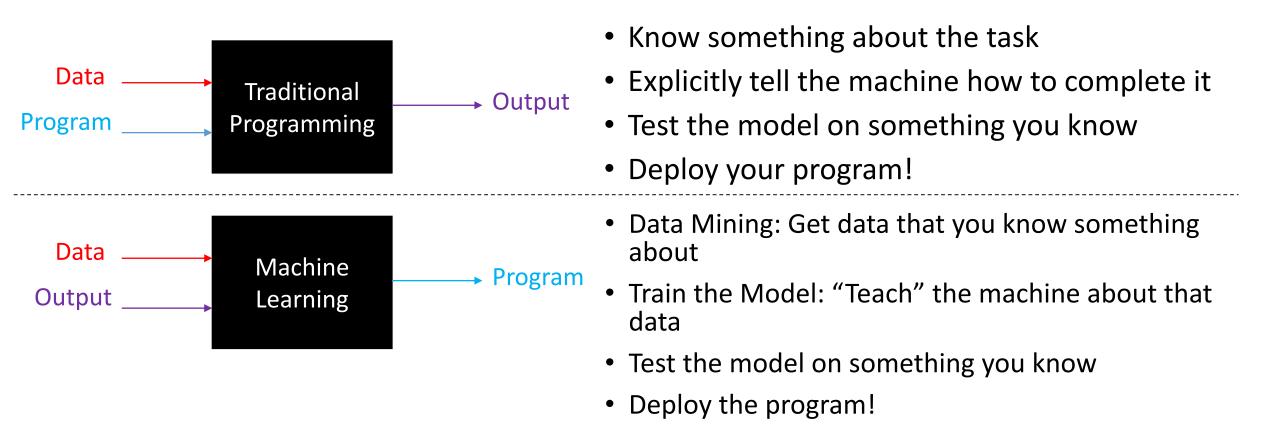
What is Al?

- Depends who you ask.
- Includes
 - Programmed AI algorithms (rule-based learning)
 - Machine Learning
 - (Statistical) techniques to "learn" some task with data, without being explicitly programmed
 - Machine "mimicking" human thinking
 - Autonomous system
 - Futuristic Robots
 - (A room full of interns)



What is Machine Learning?

Machine learning uses statistical techniques to give computers the ability to "learn" with data, without being explicitly programmed.



Potential Issues with AI Systems

- Lack of transparency
- ML often finds correlation, not causation
- Bias
- Base Rate Fallacy
- Privacy (e.g. membership attacks)
- Adversarial ML threats
- Result in antisocial and negative environmental outcomes
- Have adverse side effects

- Are built to only benefit a subset of users
- Externalize risks
- Produce errors due to ds distributional shift
- Result in systems that exploit states that fulfill the objective function, but do not complete the intended task
- Distribute errors unfairly
- ...