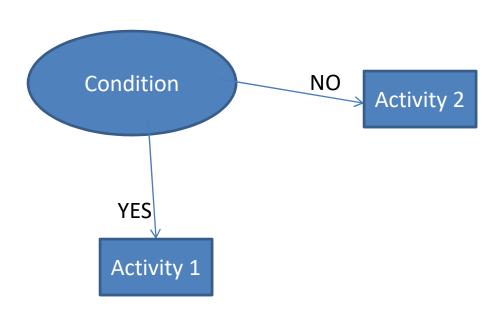
Boundaries of statistical reasoning, ML & Al are fuzzy

Rule-based decision making

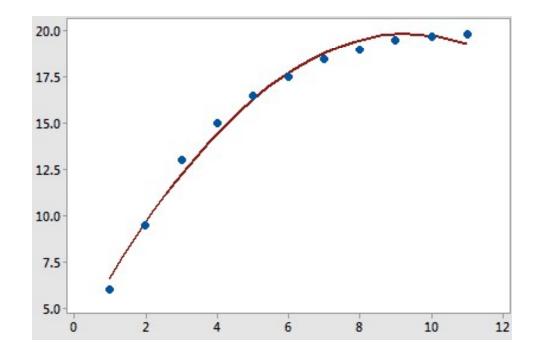
Boolean Data



Examples: threshold-based alarms, pattern matching

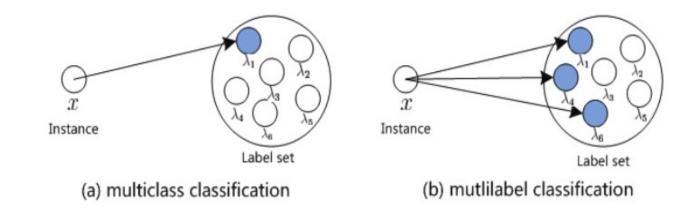
Statistical reasoning

- Numerical data (allowing curve fitting)
- **Examples:** outlier detection, extrapolation, interpolation



Machine Learning

- Arbitrary data (abstracted to numbers)
- Examples: relevant feature identification from large input data, classification tasks



AI

 When presented with arbitrary data, artificial intelligence is autonomous selection of best methodology

• Examples: autonomous vehicles, chat-bots, dynamic

adaptation to novelty

