

AI and Bias

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What is AI?

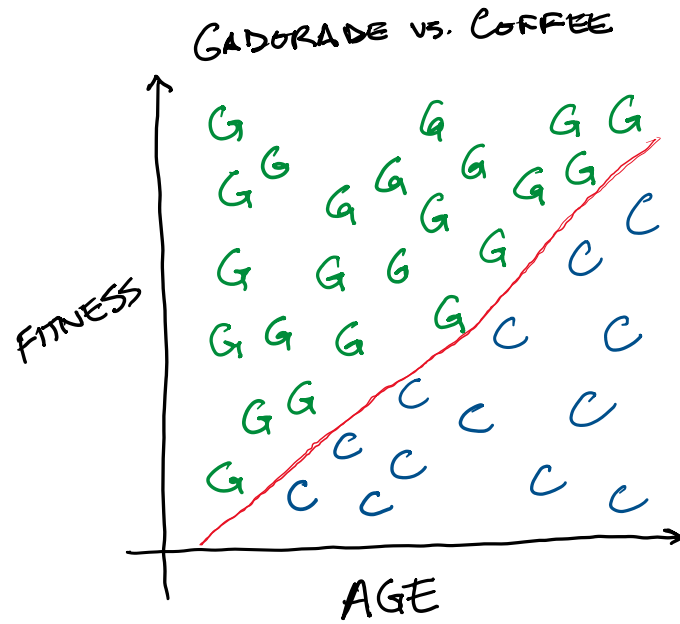
An AI is a computer system that performs a task that typically involves human judgement or capabilities.

An AI is a system whose behavior is informed by past experience.

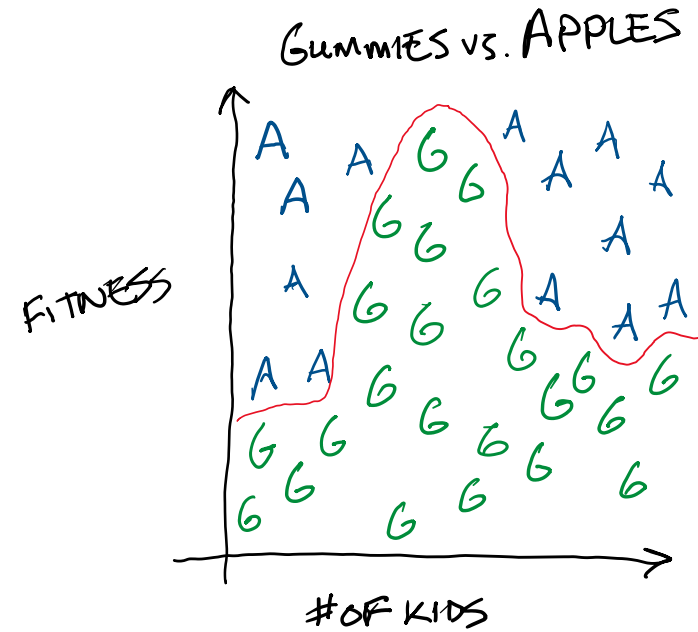
What is AI?

- Amazon ad targeting
- Vacuuming robot
- Face recognition system
- Recidivism rate predictor

An AI tries to draw separating lines

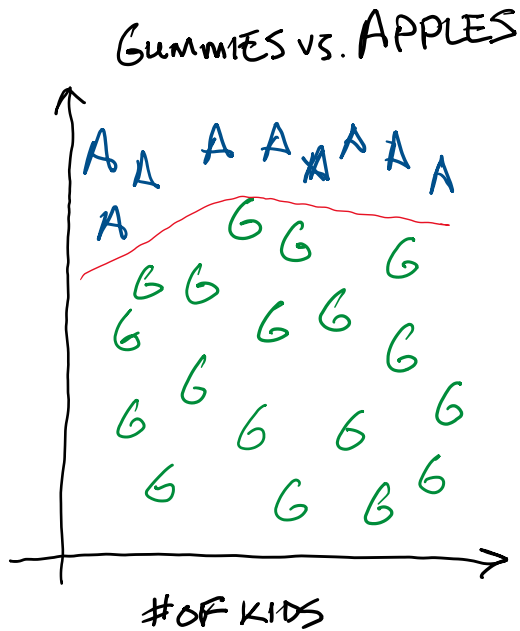
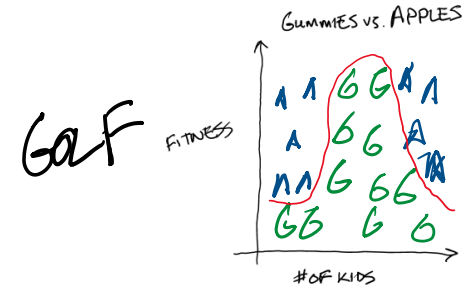
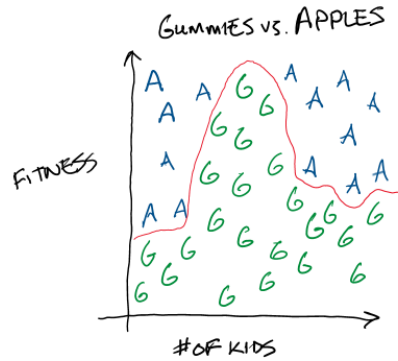


Linear classifier => simple lines

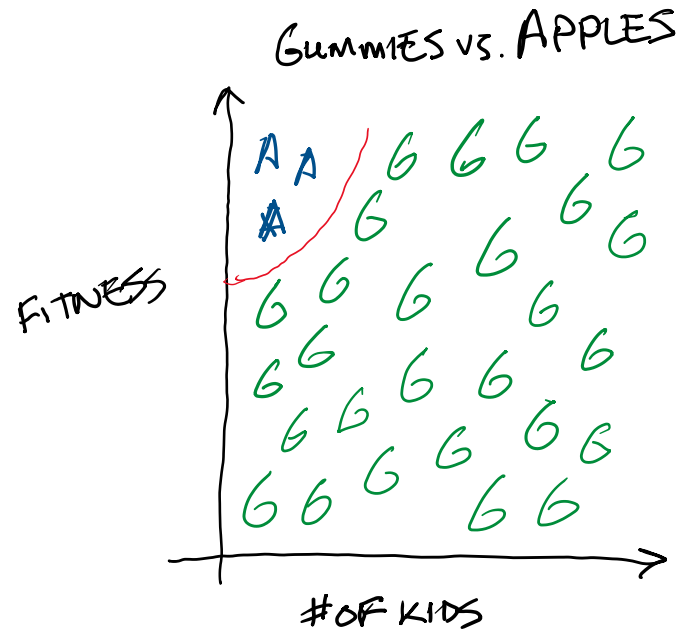


Deep learning => very curvy lines

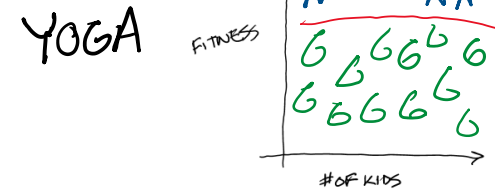
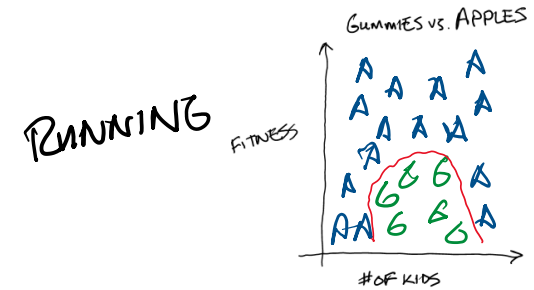
Bias: bad data produces bad lines



Wrong data



Unrepresentative data

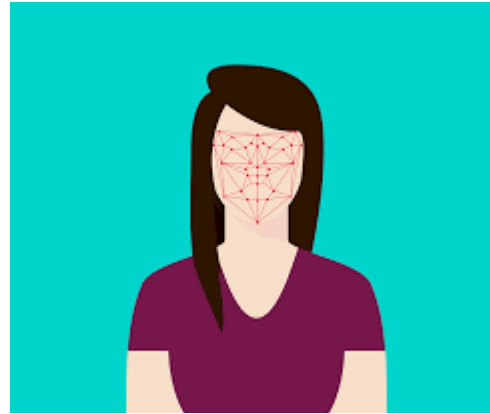


Missing important features

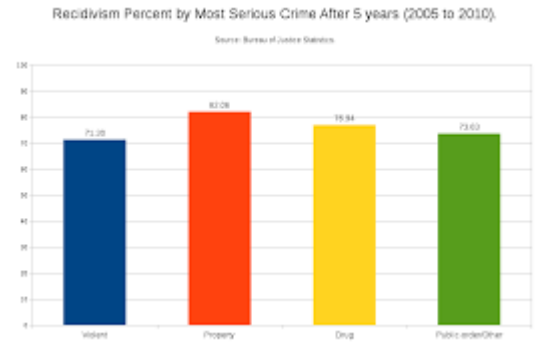
AI and bias with legal implications



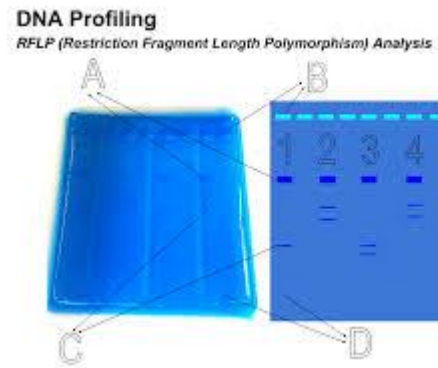
Predictive policing



Face recognition



Recidivism prediction



DNA analysis



Bail decisions



Fraud detection

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