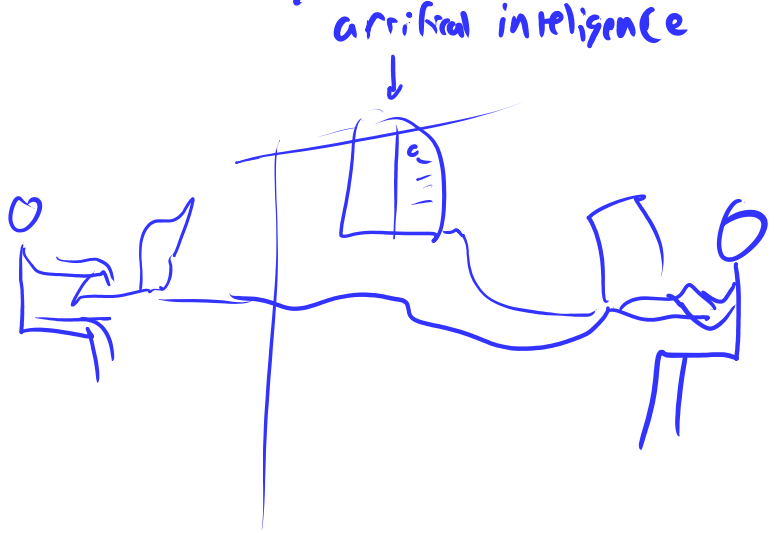
Turing Test

define "Intelligent"



Omits from intelligence:

humanness, artificiality

personality

emotional intelligence

Creativity

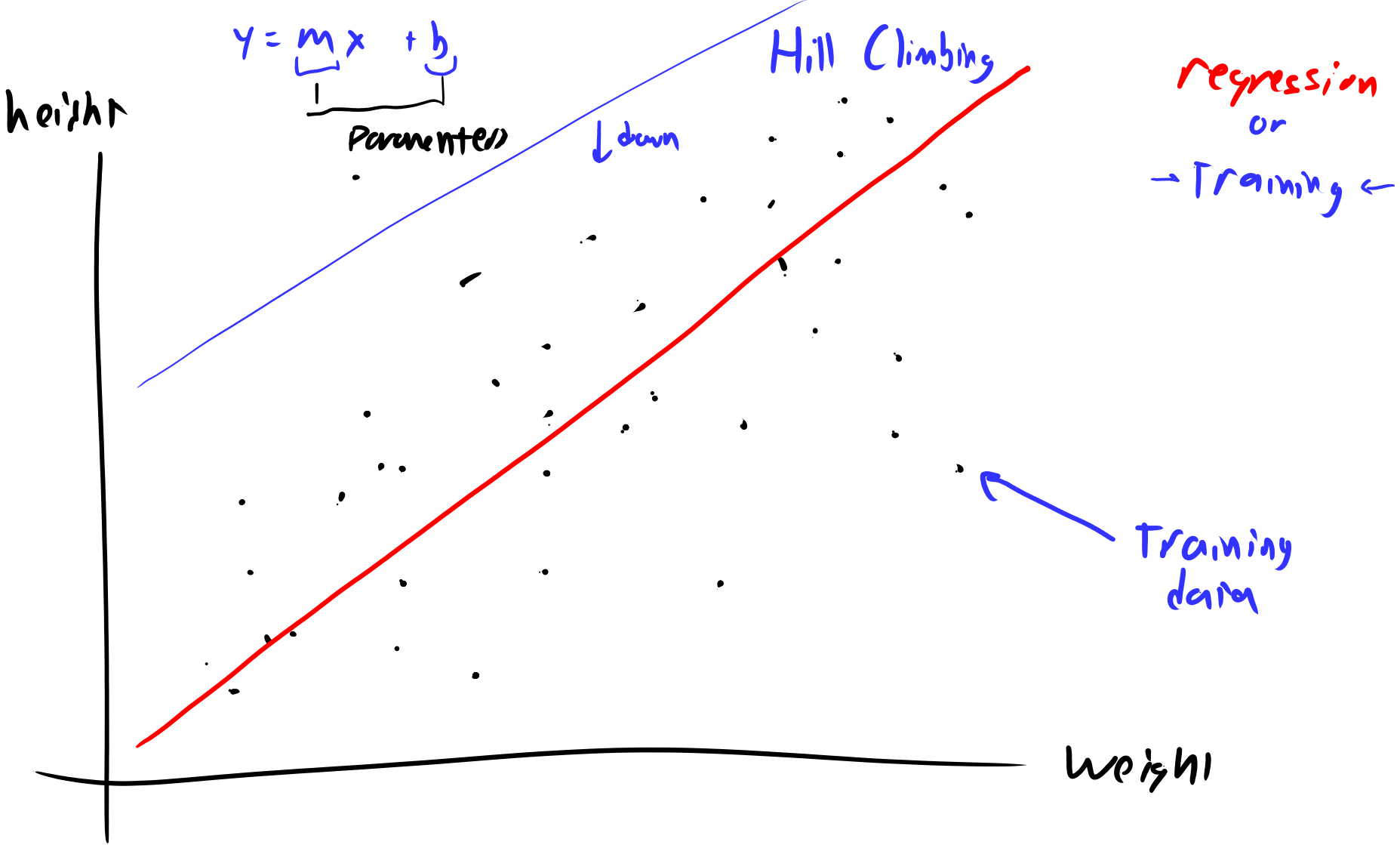
Consciousness

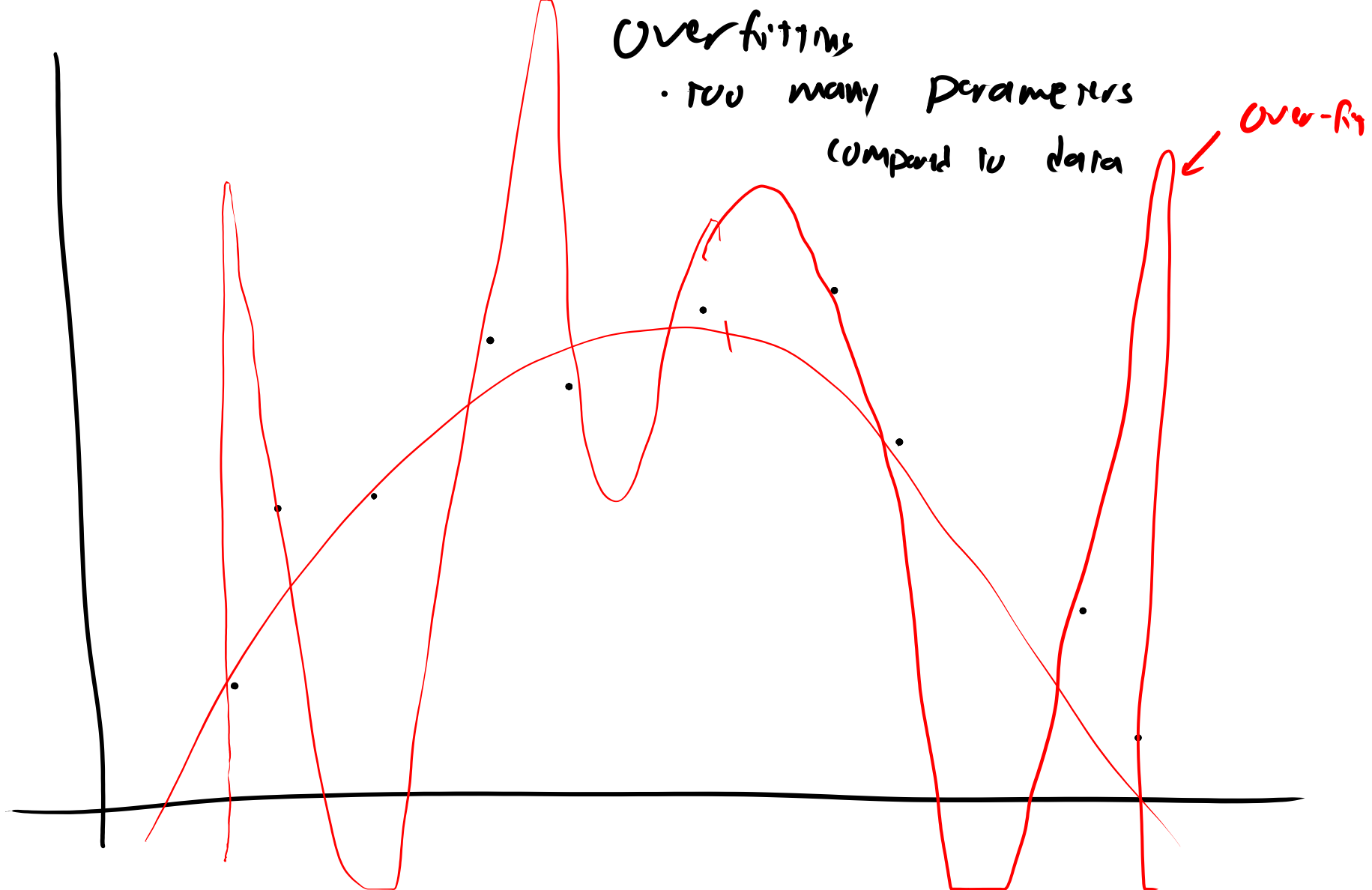
ELIZA 1966

AI as part of CS

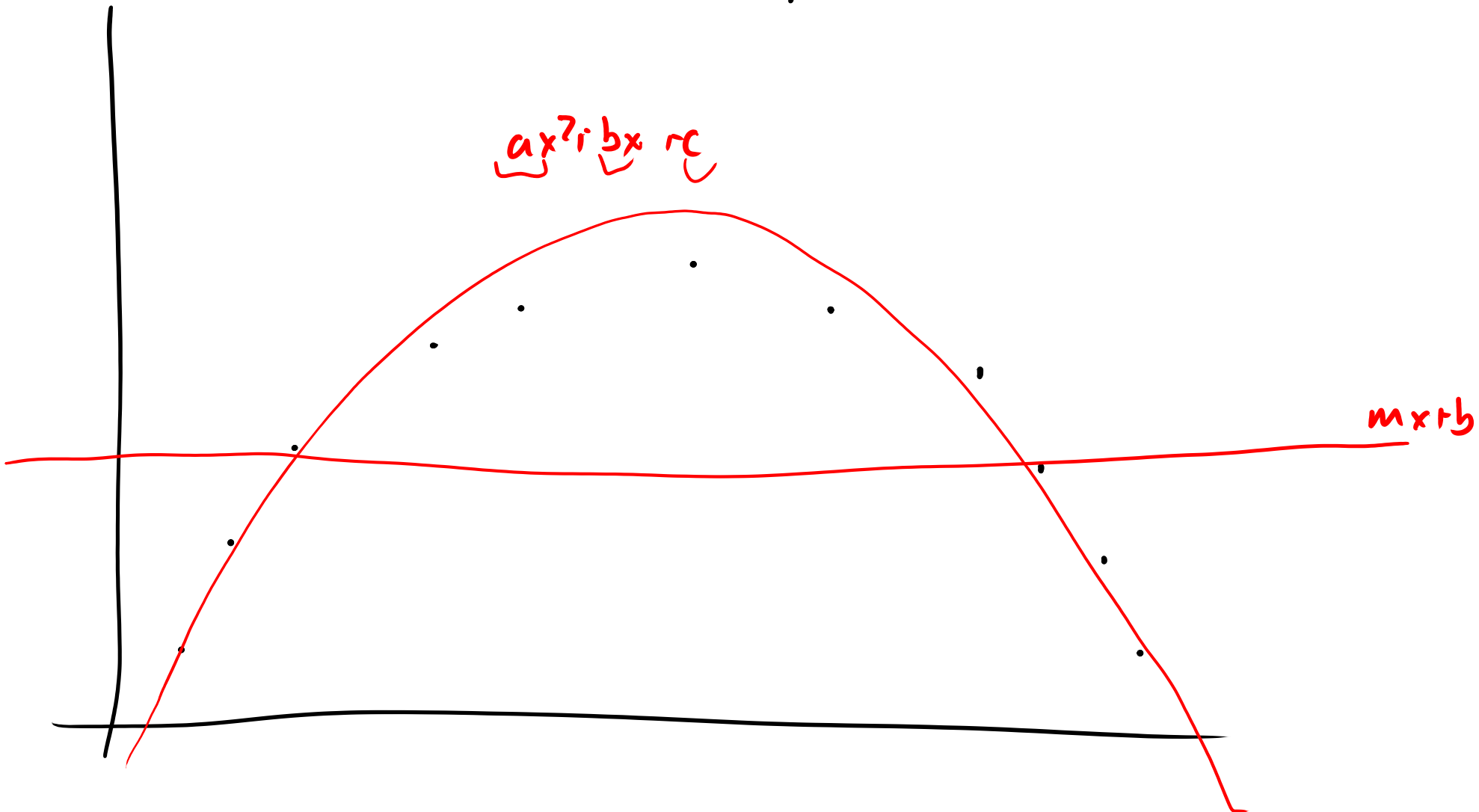
- Fool humans into thinking computer is human
- Classical AI → human-created algorithms do "intelligent" things
- Machine Learning
  - Planning
  - dimension reduction

  1. define a family of function
  2. pick one fun to be close to some data
  3. use that function


y = mx + b
Parameters
Hill Climbing
down
regression
or
→ Training ←
height
weight
Training data


Overfitting
· too many parameters
compared to data
over-fit

too few parameters



Internet-scale Big Data

Natural - language processing

Human lang in / out

→ 100,000 words

Quadrillion of words of human (Internet)

Tech worker

$100,000 /year

double productivity

electricity

$.14 / KWh