

Validation: Comparison of the measured data to the predictions.

If they're "close" => the model is "good". If not, we can rebuild the model, iterate and get close.

Ex: "Early to bed, early to rise makes a man, healthy, wealthy, and vise" Model is "imprecise". We need numbers for all of our variables and we need numerical measurements. outputs inputs -bedtime: avg. 24hr time - waketime: avg, 24hr time - health: - wealth: - wisdom: Mathematical Model (Models -have numerical inputs/outputs related by an equal sign. Formous examples: E=mc2 F=ma=fcm,a) output inputs assumption: the universe is explicable w/ mathematics True "causel input information

True relationship between the eauxl inputs and the output, response, outcome, endpoint, dependent variable

Creditworthiness example
y & Scredit worthy, uncredit worthy?
7 E E O E , 1 } = Y
output space
True Causel inputs
Z1: has enough money at the time the loan is due 680,13
Zz: unforseen emergency \{\geq \geq 0, 1\}
Zz: Criminal intent
$y = +(z_1, z_2, z_3) = z_1(1-z_2)(1-z_3)$
Bigger Problem: {Z1, Z2, Z3} are unobservable, not able to be measured, massessable
Smaller problem: don't know t.
For mext time: Salary and Launt's comment.

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