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ML Causality

- Simpson's paradox

This might be relevant to anti-bias

Segregating data

- correlations are reversed when groups are segregated.

"Domain Knowledge"

Graph of dependencies

~~Structural~~ Causal Model

- Directed Acyclic Graph

- no cycles

- "Ancestral"

Predict "what if" interventions

Causality: if one variable is required
to calc another

Noise Variables: $U_{x,y,z}$

So we have events X, Y, Z

Each event is dependent on some variable of the previous event

Cond. indie

Collider pattern:

Z dep on X, Y

- Monty Hall problem w/ collider
- I think it makes sense thinking about how they don't open your first door.
- omg we're getting stuck on the Monty Hall pr,

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Using d-separation to determine if your
ML model

I'm really not seeing the implementation of this which
is "practical" or worse, what is a direct implementation of this
in action?

Like, what does a dependency pattern in data?

lots of causal discovery methods

so possibly very easy plug & play algos

"counter-factual analysis"

Judea Pearl et al - Causal Inference stats