Quiz notes

22.04.21

DAG 1:

06:47

· Start, x end

D-A < 15 G-B 1) # paths from 0 to B: D- E / G-B G-A-B 4 (3 is wrong)

2) # Suchdoor paths from G to B: potential candidate: a = E = D -> B (#=1)

3) G LD IE? yes ble chain D -> E -> a bloched and Collider at A in path D -> A = G Stocked by default 47 6 1 1 2

no ble of chain answhed: D -> E -> G

back door path from a to B: 5) # parents for B? GEED-ABB 2 (G and A)

DAG 2: (causal effect of A on Y)

Y (H 6) # backdoor paths from A to Y?

1. A = B -> C = G -> Y (bluched: Cis collider)

2. A = B - Y 3. A = a -> Y (forh)

two paths using backdoor A = G ... two paths using backdoor A & B ...

=> answer: 4 backdoor paths (2 is unny)

7) Hof unblocked backdoor paths from A to Y? = answer: 2: (both are forhs) (A = B -> Y) & (A = G -> Y)

8) anditioning on C creates link Itw. which nodes? => G and B.

9) does conditioning on { G.B3 satisfy the backdoor path criteria?

=> yes. both forks from answer 6) would be blocked

10) What would be the set of variables to control for using the disjunctive cause criterion?

due to A: B, Which due to Y: B, H, G } which -> answer: { B, H, G}

11) is the set (C,B) sufficient (satisfying the backdoor path criterion?

B A SY at the anshocked backdown path remains!

=> answer: { C. B.3 is mt sufficient set to satisfy the backdour path on tenion.