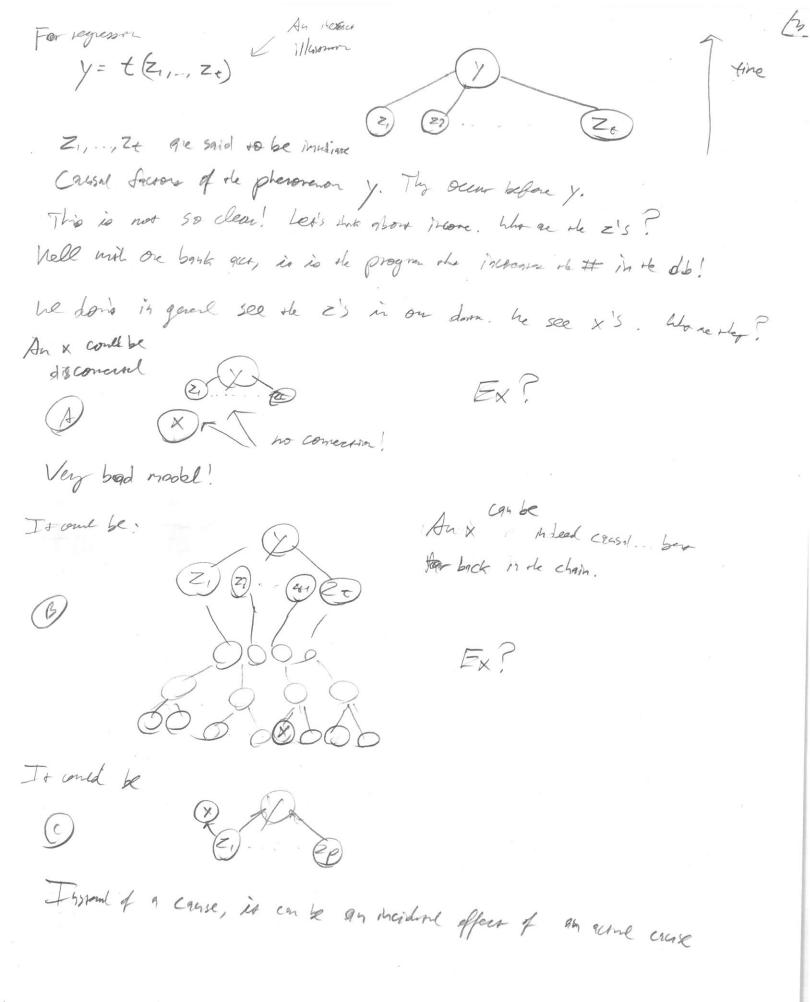
Myth 590.09 Local District $ASE = 6^2 + (2Va(g_t) + \frac{1-8}{7}Va(g_t)) + Bins(g_t)^2$ Under model

Querosping

Nith som Ag. & Jeself Sine $2 \neq 1$ $\rightarrow 2Va(g_t)$ bootstopped down D(i) this is why baggiong mortes so nell Intidution for bagged models (not only trees) Usually D= Down U Doese, mild on som, include on test. Here, each tree has its own Down, t, Dress, t. leby? Bookstup sayle. This nears that each one can validate iself by predicting on Diese, t. Now les ent ree de se and menuge by observar. Validay the first dos is learn on the 185 and we grange the 3's. Validom for the second obs. is done on nees 28 4 and we ago de 35. If T is sufferents large, all n obs. will be VARAMED. he Hen corpore Ci's and olar as evor menic e.g. Roos, E, oos, etc.) Quit of bay error est (oob error). It works! Empre dos is. Theoremally its 2 K-fold CV rich K=2, far I don't know muy grow it.

C_{Z}
Why does bagging trees north so mell?
Dit reck to specify a madel (or do madel selection). The trees figure out the model for you.
The trees figure out the model for you.
(2) No reed to specify hyperpowers. Pick a low No you were
He aerfisting!! sine it leads to low bins).
I You get interest for free. No ned to do KfdL CV.
Can ue do blosen?
MGE = 62 + Q Van(g+) + 1-Q Van(g+) + Bros(g+) ² Historical of Highly all
If we community as lon
If we can make & as lon as possible, then the various of this as the can be instituted.
l'is de rig. correlar between the trees' j's. How can me to be.
"decorrelate" the trees? Vie the classiform / regressor tree also bear
How when at onch split, pick a random subser of features
\$ 12mp P+ry 3 = {1,2,, p3
and then minime SSE as assul.
Who does this do? Ench ge war is a men different regard
Who does this do? Each gt war is a mon different regard that premark, Dannide? Bras (go) I have not too much.
Each rue is rudom'. Together, it's called a random forest! (Breiman, 2001)
(Breiman, 200))



Let's assur n is high Correlism for (A)? No Con - (B)? Yes

Let's 95 nove is moderne

Con '' (A)? Mybe > is could be by mulon dome

(b)? Mybe > is could be too rest to deser

Causal day. It obs appear con u/y due to rulon donce. Que la ule hypers when you get more down? It disappear!

Who hypers when you get me deen for (1) or ()? You will see the conclesion!

Is con causain?

- (A) No! It's not en a sent con!
- (B) Yes! It is senote ... get served from the sample effects but it is real
- (c) No! It itself is no effect

white mus be present to well a variable "crosse". In ability to prospelie is and see a shape in y. Below. X & y concluse.

X Z

If you mamplese x here, does y change?

e.g. Gubrelles (x) and Car accident (y) are correlated. How? Through Sight a common cause (z) variful among.