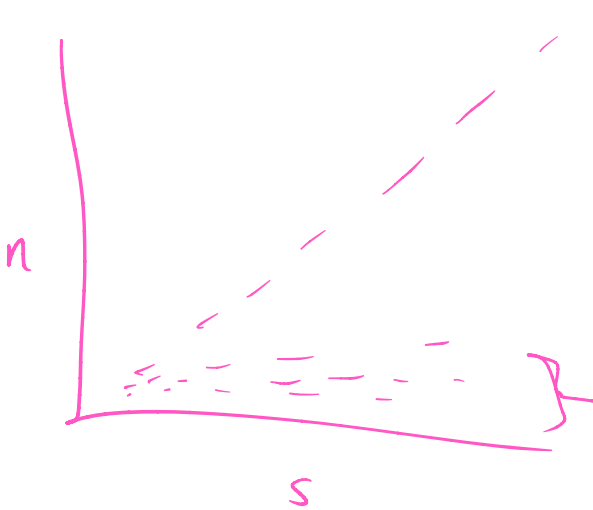


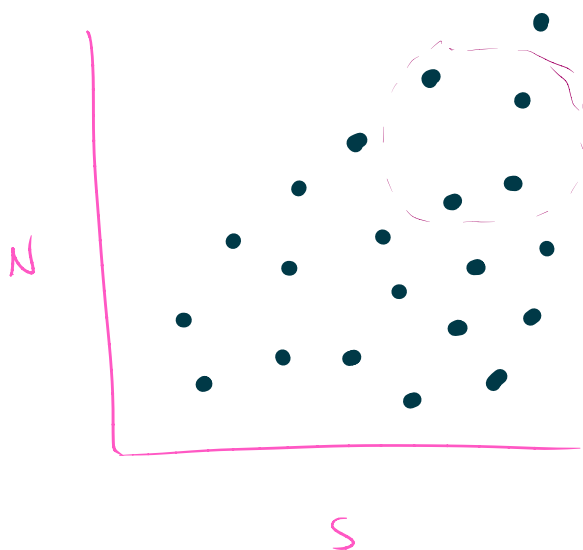
About KNN regression .....

- this to me seems like perhaps the most appropriate method here — coupled with a more even/dense training set.



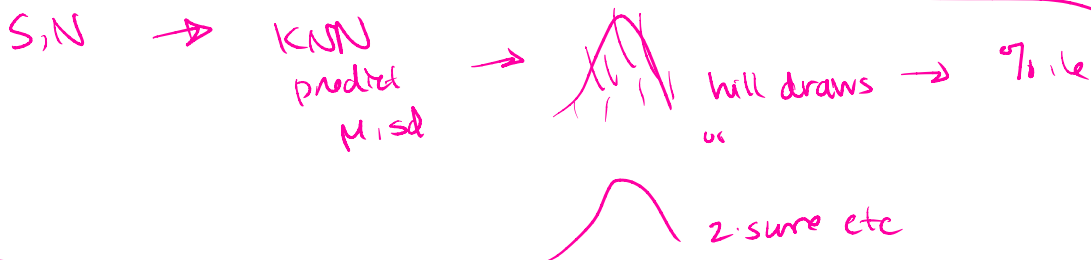
Somehow I have ended up with this v. dense region and then the high spike.

KNN, to my understanding, just finds the K points that are closest in  $S \times N$  space (or more generally in predictor variable space) and then takes the mean/smoothes that cloud.



So to predict the light blue dot, I think it picks a subset (say the 4 in the ring) and then interpolates. It's interpolation.

So that might be great... only for kind of within-sample interpolation, probably; but we can work with that.



Importantly, while I think you can start to workshop it w/ the training "catch" you have now, you will eventually need a more extensive or regularized sample.

Next steps...

- find KNN implementation → did this in feasible-neighbors notebook
- refigure sampling array