

3/28 feasible catch

The question here is of rapidly generating comparison samples / sets, or really just rapidly making the comparison between a simulation model run and the feasible set.

If it became really cumbersome the comparison to the fs is not perhaps needed? but I would like to do it.

Broader Impacts —
run a multi-day
workshop series @
UMaine in the fall?

Keras / neural net notes 3/28/23

kerasR:

installed archive from CRAN

got stuck w/ reticulate finding python path.

use_condaenv didn't work

kind of gave up and switched to my jupyter / conda

neural networks are supposed to be better at prediction than random forest.

tensorflow.org / tutorials / keras / regression builds from linear reg to dnn regression.

I'm not sure if any of these approaches will give the distribution as predictions or if they will attempt to pinpoint a single predicted mean.

a search gives me a few ideas:

- some types of nn can predict a known distribution or mpar
- model as a parametric dist.

and attempt to predict stat. for that dist.


how do we feel about modeling, for example, hill # } from the feasible set as Gaussians? you could try it

± test model performance

input:
hills



→ extract μ, θ →

$S \ N \ \mu \ \theta$ reg →
predict μ, θ | S, N →
get  → compare

or, there are more involved ways to predict a nonparametric distribution.