

4-11-23 tensorflow tutorial cross-applying w/ FS samples

high level steps

- setup / import needed modules
(+€ kernel)
- import data
- split train / test
- model setup
 - define normalization layers
train / fit normalization layers
 - define model architecture
 - train model

Mental model of tensorflow / keras layering.... -

are single input / multiple input DNNs analogous to single / multiple regression?

and, either single or multiple build in

a) hidden layers

b) potential for nonlinearity (perhaps mediated by hidden layers?)

"hidden, non-linear Dense layers w/ ReLU activation for nonlinearity."

Commentary on DNN x keras stuff -

at an infrastructure / learning level (got it to run \Rightarrow am getting information out of the results).

Working directly from the tutorial I see AOF for the DNN is slightly but not astronomically better than e.g. multiple regression.

I have not yet explored out of sample / test sample predictions.

At this stage - seems like there are probably improvements to make on this framework including

- a less biased dataset
- modifications to the nn. settings