Sample size output

Depends on factors like predictors, and their power

PMSE, =, with sigma k and k, u can find sample size.

How to assume? assume from prior info and previous literature for estimate.

pPMSEr can also be used,

Cohen f^2 = based on proportion of variation by predictors.

Look at sample size analysis for prediction

Simulations can find values.

Determing sample size through code:

With data generated from model, based on data generated, you can manually calculate prediction outcome.

By building up a model from past data, you can now generate simulated data to compare with real data, to find error values.

All depends on past estimated values, these are all assumed.

Having basic predictors, and then extra predictors can help.

Don’t worry about predictors?

The work helps with people needing to know how much participants they may need in an experiment.

**Literature review:**

[**https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7745163/**](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7745163/) **Explains importance of smapoe size, and shows available softwre for determining sample size.**

[**https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10000262/**](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10000262/) **Gives info on knowledge for sample size, and what is needed for sample size estimation. Says information on statistifal analysis, determine acceptab;le precision levels, decide study power, specify confidence, and determine practical significant difference.**

**Also states ijportance of sample size calcualtio.**

**TO DO:**

Read literature in sample size analysis;

Read PMSE improvements

Check PMSe\_influencial\_factors.R

Check related factors to simulations

Upload to git hub

Different equations have different ways of discovering sample size.