



28.20 C,818.01 Cross-validation עיפני וסיה

Goal: Trial and error approach to quantify generalization performance and overfitting-underfitting balance.

The cross-validation is also termed performance assessment.

First step of any following technique is resample

10x + $_{
m Big}$ dataset \mathbf{of} thousands): (tens train/validation/test

Split into three distinctive datasets:

- 4) Training (50-80%): used for learning of model parameters, e.g. weights w.
- 2) Validation (10-25%): used for assessment of model hyper-parameters influence.
- 3) Test (10-25%): performance assessment that is supposed to be an estimation for the generalization





