Machine Learning ToolBox - Utilities Functions

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Last Update: 2016/09/16

------------------- summary --------------------

- cell\_sum: sum of matriz inside a cell

- cross\_valid: given the fold, presents the data set divided between training and validation

- data\_gen: generic function. returns the data set configured to be used by the tools

- denormalize: denormalize a data set by the user needs

- hold\_out: alleatory division of a data set

- label\_adjust: turn labels for the configuration that the user wants

- normal\_or\_fail: given labels and outputs of ordinal classification, presents the accuracy between normal and fail

- normalize: normalize a data set by the user needs

- rejetc\_opt: presents the samples that were rejected

------------------- data\_gen -------------------

- Trata os dados de modo a deixa no padrão desejado

- dados: Matriz [pxN] (amostras do problema)

- alvos: Matriz [cxN] (rotulos de dimensão Nc)

- rot: Matriz [1xN] (classes numeradas em ordem)

- Nc: No de classes do problema

---------------- label\_adjust ------------------

- Ajusta os dados para determinado padrão

- alvos\_in X alvos\_out

-> Opções:

------------------ normalize -------------------

- dados\_out x dados\_in

-> Opções:

- 1: Normaliza entre [0 e 1]

- 2: Normaliza entre [-1 e +1]

- 3: Normaliza por Xnorm = (X-Xmean)/(std)

--------------------- END ----------------------

**normalize**

1) Mean and Standard Deviation

2) [0 ; 1]

3) [-1 ; +1]

**denormalize**

1) Média e Desvio Padrão

2) [0 e 1]

3) [-1 e +1]