FOLDERS

gauss VRM (breast, cifar10, mnist) (NN)

* Perturbation only
* Augmentation

mixup (breast, cifar10, mnist) (NN)

* Perturbation only
* Augmentation
* Augmentation with weights [w \* perturb\_loss + (1 - w) \* original\_loss]
  + 0.25
  + 0.75
  + 0.9
  + 0.99

models [the model used in mixup]

old code [sklearn, old codes, perturb/augment the entire datasets before training; not perturb/augment during training batches; NN/RF/SVM]

standard (breast, cifar10, mnist) (NN) [the basic code]

tutorial [pytorch tutorial]

FILES

load\_data.py: to load sklearn data, artificial data

utilities.py: to plot 2d decision boundary

vicinal\_classification.py: corresponding to the old code folder, perturb/augment the entire datasets before training; not perturb/augment during training batches]