

A quick-and-dirty vocabulary for learning theory

Learning theory jargon	Simplified supervised-learning terms
instance	sample / data point
attribute	feature
concept	class label
hypothesis	rule / mapping
hypothesis space	all possible rules
training error	training error
true error	test / prediction /generalization error
version space	subset of rules that classifies data perfectly
consistent learner	algorithm that fits the training data perfectly
epsilon-exhausted	each candidate in the space of rules makes less-than-epsilon error
dichotomy	partitioning of data into two classes
shatter	successful partitioning of data into two distinct classes
vc dimension	maximal number of data points that a rule can successfully partition for all possible labeling, e.g. N data points have 2^N labeling.