

-	
(2) T)	Boolstrafing & It is a method of sample newse The idea is to use the
	growse The idea is to we the
	observed sample to estimate the lopulation
	distribution Then samples can be drawn from the
	extimated population and the earnfling distribution
	of any type of estimator can itself be
	estimated.
	There eve there tyles of bookstrajings
۵	Nonfarametric & A sample of same size as the
	data is taken from the data
	with reflecement what does this mean It means
	that if you measure 10 samples, you create a
	new sample of size 10 by gellicating some
	new sample of size 10 by greflicating some of the sample that you have already seen and
	CMI 1 hay on cas
00)	Semifaciameteric & It can only refereduce the items
	Semifaciameteric & It can only referoduce the items that were in veriginal sample.  It assume that the Jojulation includes other
· · · · · · · · · · · · · · · · · · ·	It assume that the Jojulation includes other
	Theme that are similar to observed sample by
	Sampling from smoothed version of the sample
00.	O Jan
111	Parametric & It assumes that data comes from
	a known distribution with unknown
	Ranameters You estimate the parameters from
	the data that you have and then you use
	me estimated distributions to simulate the
	samples.
	All along a short the
	All above camples methods are cimulation based
	The Curs
	Scanned with CamScanner



	Course Validation & It is " method that uses the same date to had
1	
	Terain the model and obtain a less biased
	estimate of frediction everor than the
	direct estimate The besic idea is to split
	the teraining data into two subsets - one
	is used to train the frediction rule and
	then the other subset is used to asses
	Enediction error To use the date efficiently,
	this is neglected with multiple effits of
	the data
	There is a small broklem with this
	method for assessing frediction errors. The final
	Bredicton will be based on N, but estimated
	Prediction errors is based on freelictor developed
	on smaller semple N > N-N/K. So Crow-velidets
	estimate of frediction error might achielly
	and the holes
	levediction errores than you think However with  10-folds cross - validation Cant be too four  off because you are using at least 90%
	10-folds crass-validation Cent be too for
	off because you are using at least 90%.
	of your lamille
	. /
	The state of the s
4	
	the state of the s
	/ / / / / /
	The state of the s