

Ø	Leave one out cross validation (Loocv):
	In this approach, use reserve only one data point
V	and toain Model on rest data points. This process
	iterate for each data points
	Adv l Dis c - Whom will provide the state of
	- steps in Corre retiration
	- We make use of all data points il low bias
	- We repeat the crops Validation process ? Levate on times
ts	means high execution time
1. witsh	- This approach leads to higher variation in Lesting
40	Model : we testing against one data point. If the
4,1.1.1	Model: we testing against are data point. If the data point turns out to be an outlier gt can lead
-19	to higher variation de bes high variance
	1 x Non
(3)	K-fold Cross Validation!
	- Conserver Welland 1984 for 1808-Validation -
	Form above 2 methods - i) high bigs
1	118) politions Wariana of the
	So, it will take Core of both.
tv	Steph Iv of NO to took look with see with NO
	CONTRACT OF STATE OF
	(i) Randomly split our entire data set into K-folds
- fix	
	tolds has count
The second secon	
	Oross validation error & recorded errors is called the
	SPACE OF WITH
	metric for the Model

	Date Page
<b>B</b>	How to choose viget value of K &
	lower value of 1x 3 more bias 3 understrable large u u u 3 more variability.
	Small value of K leads to validation set approach higher " " " Looc V approach
	So, always suggested k=10
<b>(4)</b>	How to measure model's bias-variance?
<b>→</b>	After K-fold Cross validation, we will get k-different model estimation errors (elges, ek). In ideal scenerio,
	these error values should add to zero.
->)	For Model's 5ias, take avg of all errors,  Lower avg value, better Model  For Model's variance, take Standard deviation of all error.
<del>_</del> >	For Model's variance, take standard deviation of all error.
	Lower value of Std, our model doesn't vany a lot with different subset of toaining data.
<b>→</b>	So our focus on achering balance blue blas & variance
	reduce variance, controlling bias to an extent
_ <del></del>	is, for better porchichive Model.  reduce varione, controlling bias to an extent  This toade-off usually leads to building less complex predictive  models.
	Model is too simple > Suffer from underfitting
	Model is too Complex & Suffer from overfitting
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