CS9840

Learning and Computer Vision Prof. Olga Veksler

Lecture 5

Cross Validation

Cross Validation slides are from Andrew Moore (CMU) Some slides are due to Robin Dhamankar Vandi Verma & Sebastian Thrun

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	Downside	Upside
Test-set	Variance: unreliable estimate of future performance	Cheap
Leave- one-out	Expensive	Doesn't waste data















Which kind of Cross Validation?			
	Downside	Upside	
Test-set	Variance: unreliable estimate of future performance	Cheap	
Leave- one-out	Expensive	Doesn't waste data	
10-fold	Wastes 10% of the data. 10 times more expensive than test set	Only wastes 10%. Only 10 times more expensive instead of R times.	
3-fold	Wastier than 10-fold. Expensivier than test set	Slightly better than test- set	
N-fold	Identical to Leave-one-out		
		from Andrew Moore (CM	



















