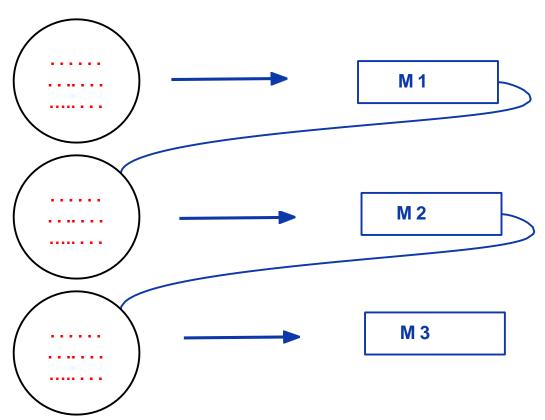
Boosting





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Boosting Methods



- AdaBoosting (Adaptive Boosting)
 - In AdaBoost, the successive learners are created with a focus on the ill fitted data of the previous learner
 - Each successive learner focuses more and more on the harder to fit data i.e.
 their residuals in the previous tree
- Gradient Boosting (GBM)
 - Each learner is fit on a modified version of original data. Original data is replaced with the x values and residuals from previous learner
 - By fitting new models to the residuals, the overall learner gradually improves in areas where residuals are initially high
- XG Boost (Extreme Gradient Boosting)
 - Upgraded implementation of Gradient Boosting. Developed for high computational speed, scalability, and better performance.
 - Parallel Implementation, Cross-Validation, Cache Optimization, Distributed Computation This file is meant for personal use by chakradhar.yedurupaka1990@gmail.com only.

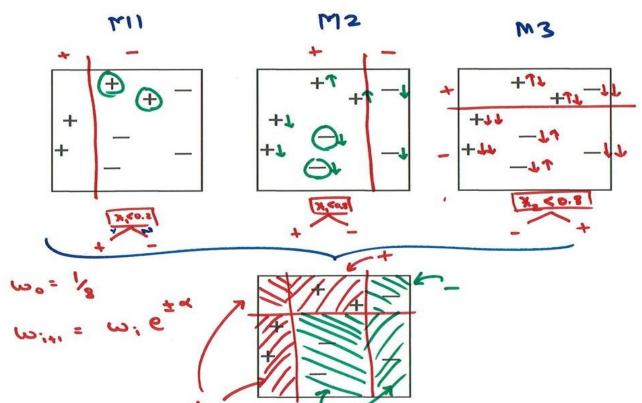
AdaBoost



X1	X2	Υ
		+
••		+
		-
••		
••		
••		

AdaBoost





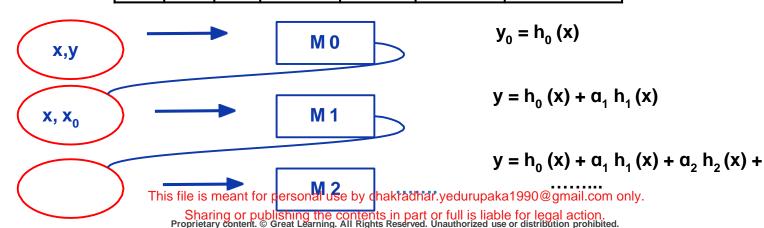
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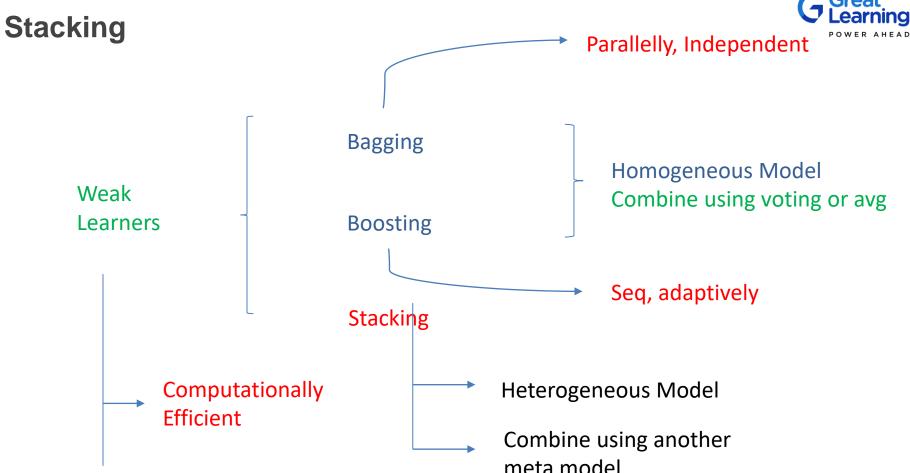
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Gradient Boosting



X	у	$\mathbf{y_0}$	y - y ₀	h	
	50	40	10	8	
	92	100	-8	-8	
	60	80	-20	-10	
	64	50	14	12	



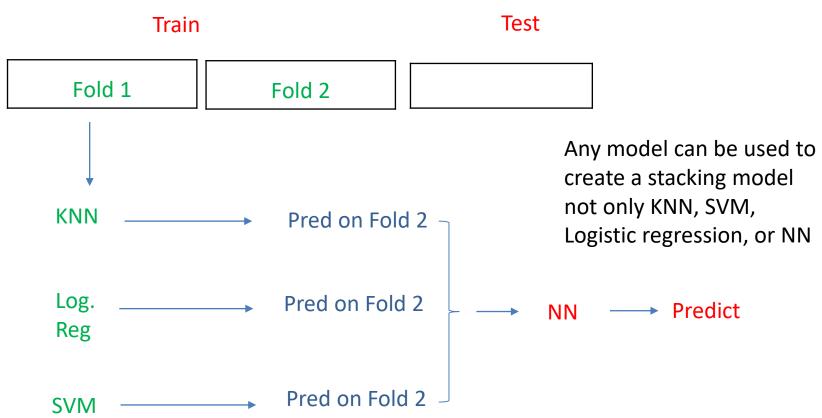


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