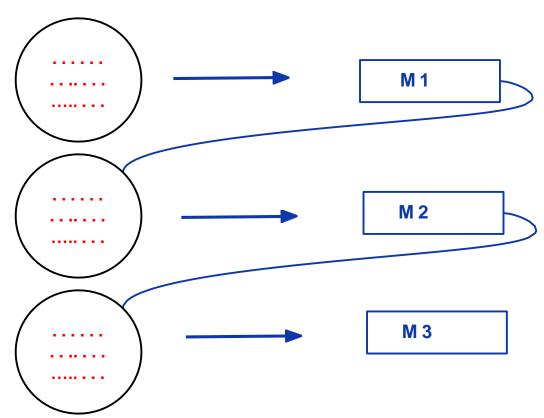
Boosting





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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 unmesh_redkar@hotmail.com only.

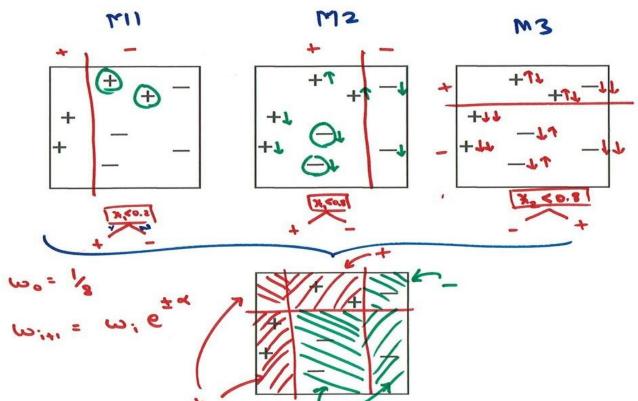
AdaBoost



X1	X2	Y
		+
		+
		-

AdaBoost





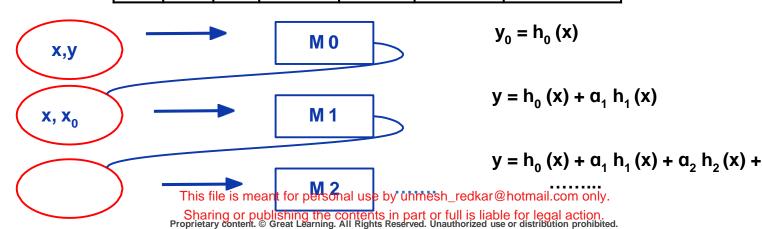
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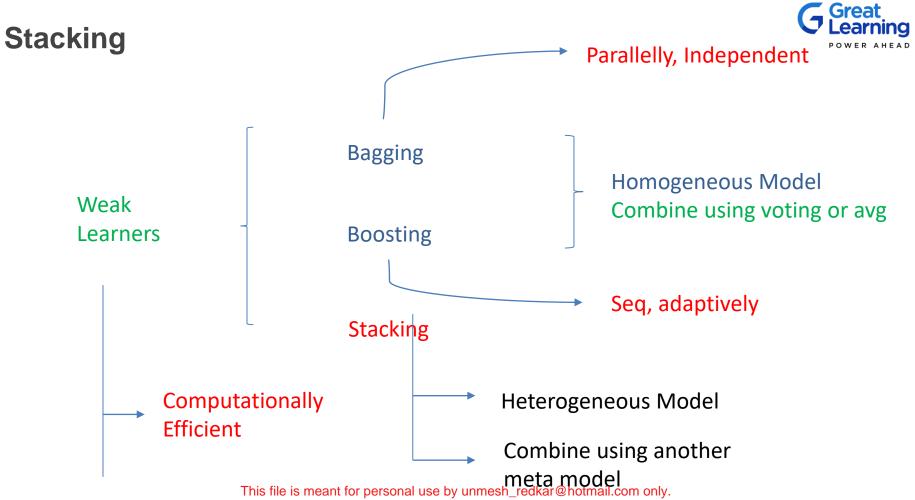
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Gradient Boosting



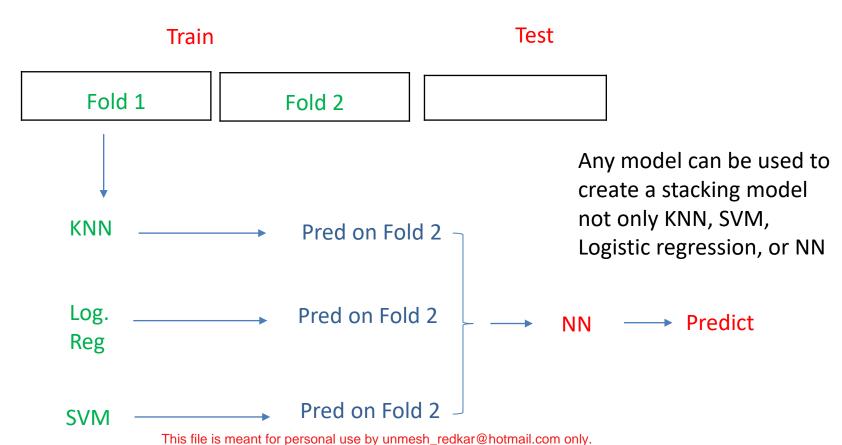
X	у	$\mathbf{y_0}$	y - y ₀	h
	50	40	10	8
	92	100	-8	-8
	60	80	-20	-10
	64	50	14	12





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