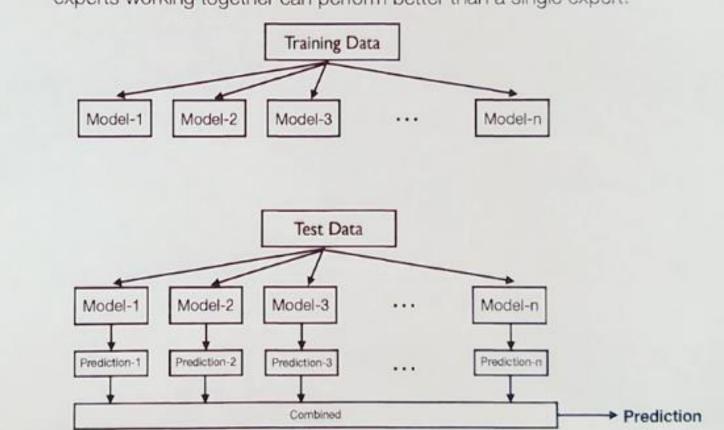


#### **Ensemble Methods**

- Ensembles are machine learning methods for combining predictions from multiple separate models.
- The central motivation is rooted under the belief that a committee of experts working together can perform better than a single expert.



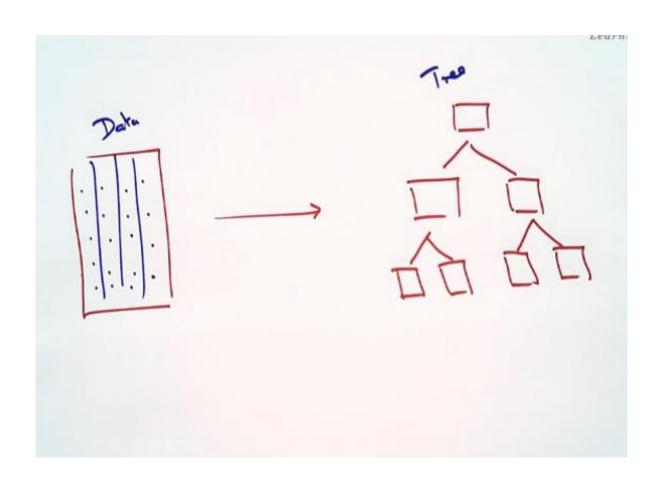
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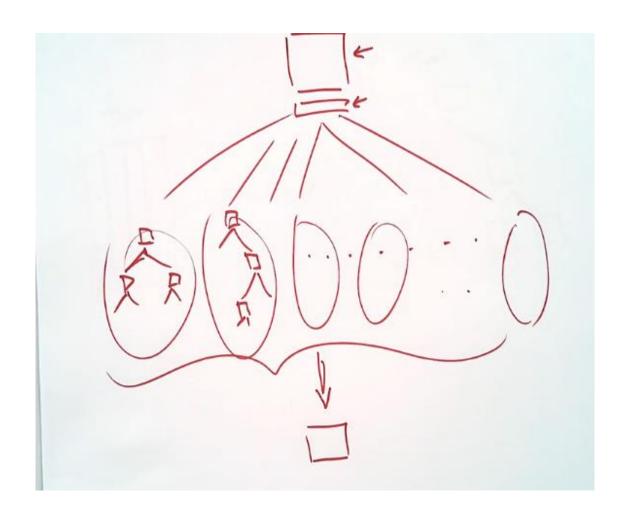
# Example



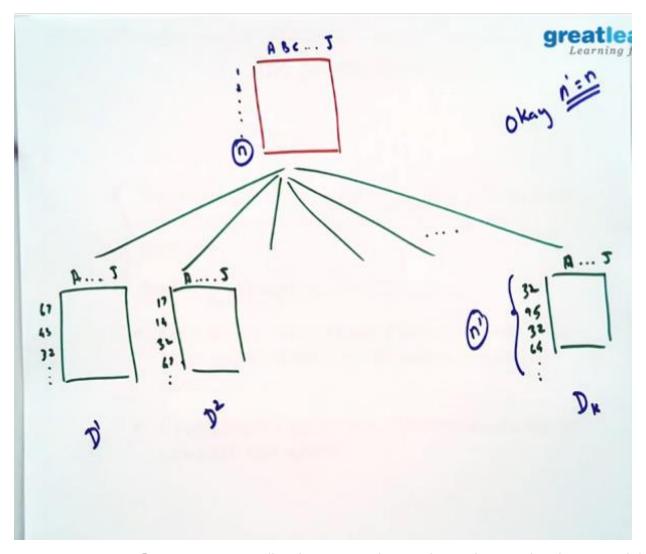






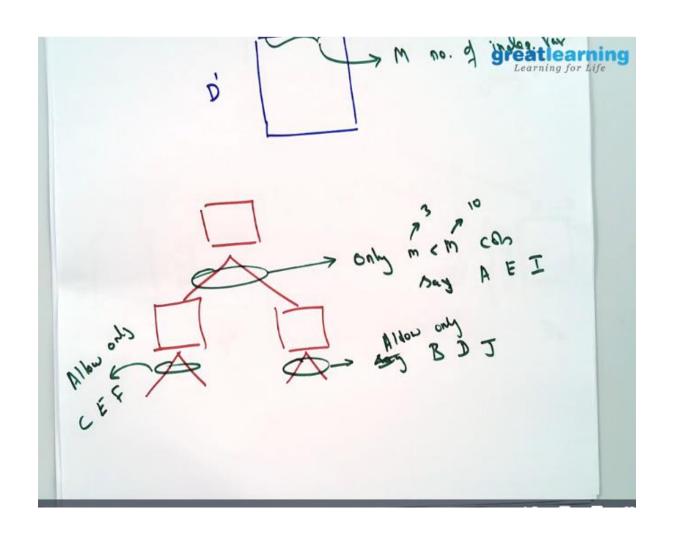




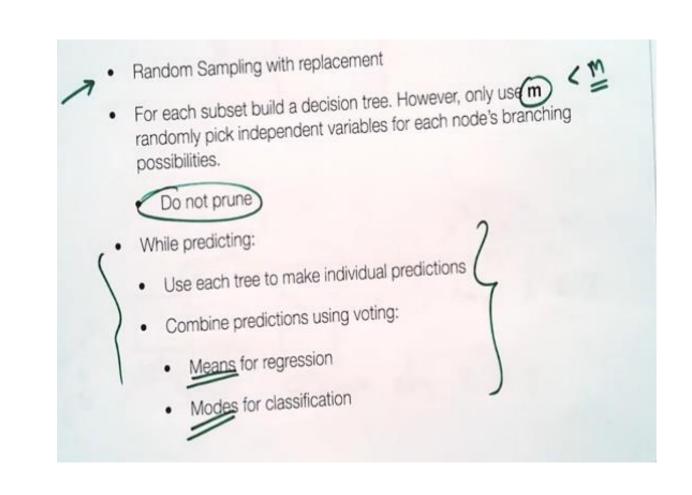


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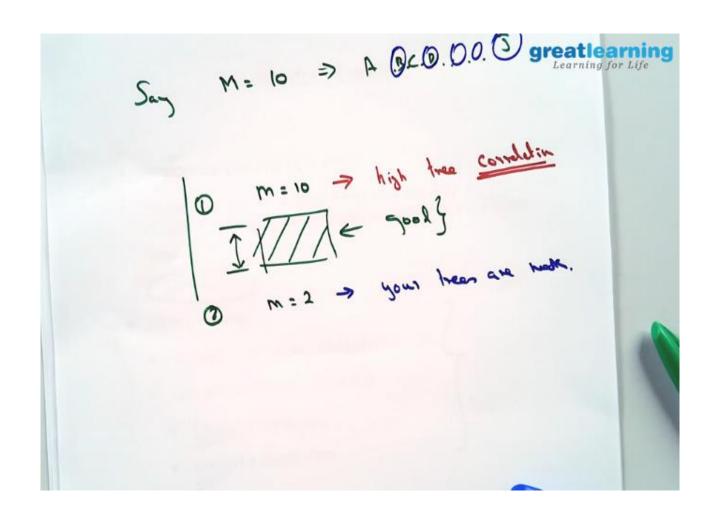






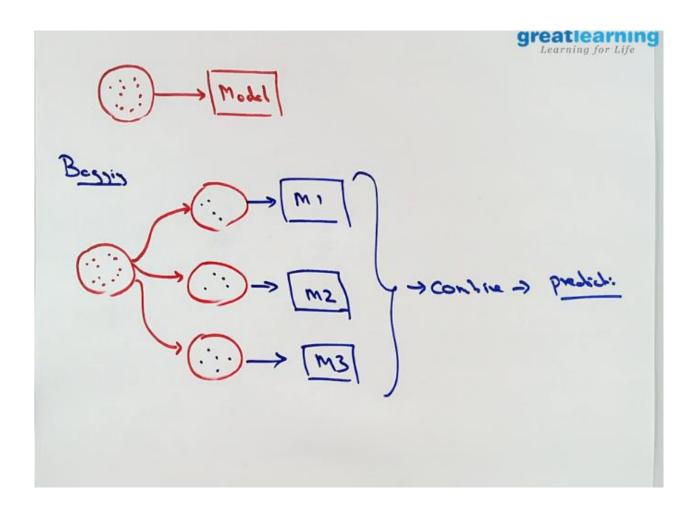






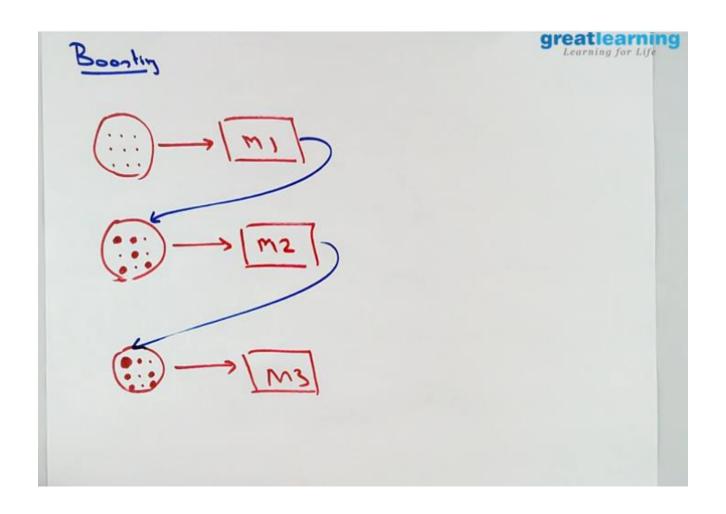


## Bagging



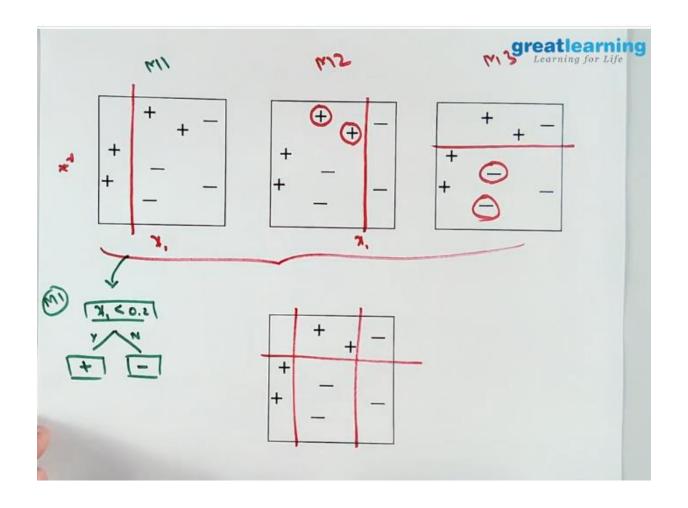


## **Boosting**



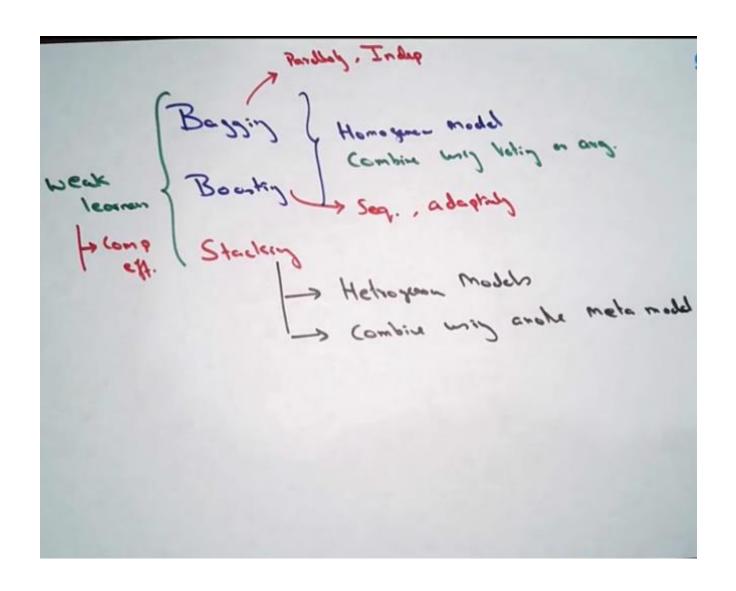


## Boosting – Visual Example





### Stacking





# Stacking

