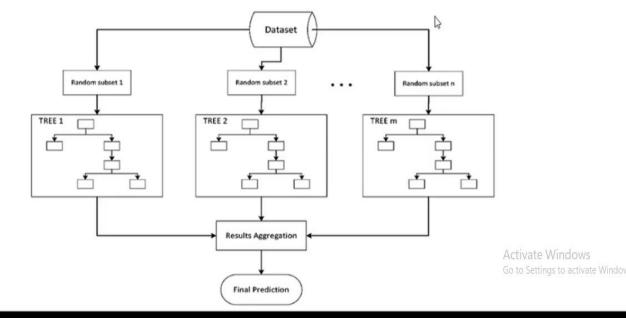
Ensemble Methods in Machine Learning: What are They and Why Use Them?



Ensemble Methods in Machine Learning:

- Bagging or Bootstrap Aggregation
 - Bagged Decision Trees
 - Random Forest Classifier or Regressor
 - Extra Trees
- Boosting
 - AdaBoost
 - Stochastic Gradient Boosting
 - XgBoost
- Voting

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Ensemble Methods in Machine Learning:

- Bagging. Building multiple models (typically of the same type) from different subsamples of the training dataset.
- Boosting. Building multiple models (typically of the same type) each of which learns to fix the prediction errors of a prior model in the chain.
- Voting. Building multiple models (typically of differing types) and simple statistics (like calculating the mean) are used to combine predictions.

B

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