

Ensemble Technique

- Ensemble Techniques are those techniques in which multiple base models are trained.
- 2 types:
 - (i) Bagging
 - (ii) Boosting.

Bagging

- In this technique main dataset is divided into parts
- Various base models are trained parallelly on each dataset
- Collective outputs are taken.
- Regression + Classification.

Ex. Random Forest

Boosting

- In this technique base models are used sequentially to form weak learners.
- Collection of weak learners form a strong learner.
- Regression & Classification.

Ex.

(i) AdaBoost

(ii) Gradient Boost

(iii) XGBoost