## out-or Bag evaluations

- The Balging, there might be some data which are never sampled at all o the remaining data which are not campled are called out or instead.
- an be used for evaluating the accuracy of model by my these dates for prediction,

## (4) Random Forcest &

- -> Decision treel have law bral but high vowance and we know baysing technicul Haivery gold solution for decreating the vowance for a decision tree.
- model at a decision tree, we can also me Random Brest which is more convenient & well applicable for decision treet.
- -, the main rune or bagging to that then it not much endependence among lampled dataely.

  (There is correlation).
- The advice at over bassing is that RF make a tweak in wonley algorithm of bassing make to decrease the comelation in treet. The idea is do introduce more randomneu out the creating treet which will help in reducing correlations.

- o pilterent sample are collected from training datalet using bootstrapping.
- 3 on each sample we train our tree model & we allow the treet to grow depths.
- Donce the trees an formed, preduction is made by the reinform Abret by aggregating the preduction of all the model. For regression model, the mean drail preductions is the Anal & for claentication mode, the mode arail the predictions is and the bredictions is

## odv & Drader of Random Paren

- O or can be used for book regres & clouds problems.
- Osince boue model us a tree, handling of missing values is easy.
- 3 of given very accurate rent with very low vandance.
- Depute or a random forat are hard to unknown in companion with DT.
- respective model.
- should be med when acuracy of upairmot