train different classifiers then combine than
weath with the give better than individuals (not always) vobust to overfitting
Wigh (LR)
[SVA]
DT
ways to combine:
1) magority voting (Regression: average)
@ Wieghted mangarity varing classifier
(I) add another classifier (second layer) train it using validation data
cratica: - (to achive the good)
1) minimum acceptable error (better than Random)
@ should those dessitions make error in different samples
we want to min.
oterlapping the ensemble error error for ensemble =0%
hotro = SVM, DT
nemo = Same classifier with different
hyperparamete
hard to got there
L get min. over lapping.
- manipulating the given data to every classifier (different from each other)
- use different features for every dassifier
- use different descitiers
- use same dussifiers with different hyper-parameters

different features is belter than different classifiers
to reduce variance (overfitting)
Bagging very good for decesion tree (since it's problem is easy eversit)
split data thinks did Ci D size = di size tuke from D then remove and duplicate randomly
dr Cr
to reduce Bais (under Sitting) Sequential learning
Boosting Ada Boost Perponential Loss Fun.
Use week classifier (high bais low veriance) used wieghted samples
- su used wieghted magarity voting Si o.
assign wit to every sample (wit = 1)
1) Train classifier C, (wieghted dissilier + botter than random)
3 compute w.t of the classifier = _ In (1-error)

