Ensemble Lealung:
idea
Core , 0/ El:
Given N models {h,(x), h,(x), in make
Given N models {h,(x), h,(x), h,(x)}, the ensemble combines their outputs to make
a prediction.
For classification,
$= \frac{1}{\sqrt{1 - mode(h(x), h_2(x), \dots, h_N(x))}}$
Ent provelling
$\frac{1}{\hat{y}} = \frac{1}{N} \sum_{i=1}^{N} h_i(x).$
N;=,
Bias Vaniance Trade off.
Pudiction Error = Bias²+ Variance + Noise.
Types of EL:
Types of EL:- A) Bogging:- N
00 U 4 = 1 5 hold)
Reduces Vouvance wintout increasing bias.
(b) 600sting:
B) Boosting: To Sign (Zath(N))
Reduces both bias & vouiance.
c) (tacking:
z= {h,(x),h,(x),-,hn(x),y)}.
Leverages the strengths of different algorithms
to achieve better peyormance

Ensemble peyormance: P(EError) = \(\frac{1}{k} \) \(\frac{1}{k} \)