

_ cene!	tolon 22 mulia.
	How do we get validation for grang?
. 1	You ob = Avg(only g prediction where I is oob)
	Fach obs 15 oob ≈ 1/2 M. Since M large, each Yi, oob will be accurate.
(3)	- KJ II (J. X - F) I more yes - w
11	00B validation = k = 2 - fold CV
	Advantage to bagging
1)	Obliterates Bigs if an A wish complex H is employed (e.g trees)
149.5	religional to the state of the
	Reduce variance substantially
Salasyd &	free validation during the filling step.
boolear	Assume we are using tree.
	MSE = 6° + PE [Var [gm]]. How can we make MSE smaller?
X	R=Avg correlation between two trees each built with a different bootstrap sample.
(cases	How can we further de-correlate the tree during tree construction?
p more of the	What if during each nodes construction, you only
Q /(a/a)	split on a subset of features of size Ptry <p. [1,2,,="" [j.,="" c="" i.e.="" ja,]="" pj?<="" td=""></p.>
	This models make the trees more different, hence ? decrease. Amazingly this doesn't increase bias too much
	Random Porests, Rf (Breiman, 2001)