Y~+(x)+=

knore & Is random.

Let f (To, D) the prediction for now input, To, made by a model trained on D

a. The bias of f(X, D) at 20 depends on 20.

c. The bias of f(X,D) at 20 may depend on the degrees of treadom of the model class.

to In general, squared bias is low for models that overfit the data

h. The blas of f(x.D) at Io IS ED (f(x0))-f(x0)

62	Suppose you train hun prediction algorithms, AD and AL,
QO _s	and are looking for evidence that
. 1	- At produces a botter prediction rule than Ab.
	mandy you apply the new prediction hues to the some dataset.
CALL C	Many Your null hypothosis is that
	- Al is not better than AD
	and you apply me new prediction rules to the same dataset.
	The results are summarized in the pollowing contingency
	table:
	AL
3. * A	AO correct wrong
	correct 1890 43
	urong 59 23±
91-5	
	There is evidence that the prediction rule produced by
	Al as better.
	-the evidence Is not statistically significant at level 5%
	- the evidence is not highly statistically significant at lovel
	4°/0
	you can use R to ensuor this question.

			of and ob	on a given to	
		True			
Pre			unou		
				TP	F
		7		FAI	7
Compute	the em	or rate of	the algorit	hm.	
The total	numbor	of opio	wations: 1	1+5+4+9=	32
			FN+TN		
			Total obser		
		= 7		2=0.5%	1
			32 32	2	
· True 10	vers clade	or rate -	5+9=14	= 0.4375%	
			32 32		
	,				
		THE RESERVE			
				Charles of the Control of the Contro	