Assessing Performance

13 questions

Model 1

Model 2

	tures of Model 1 are a strict subset of those in Model 2, the TRAINING the two models can never be the same.
O T	rue
O F	alse
will USUA	cures of Model 1 are a strict subset of those in Model 2, which model LLLY have lowest TRAINING error?
O M	lodel 2
O It	's impossible to tell with only this information
1 point 3. If the feat	cures of Model 1 are a strict subset of those in Model 2. which model



4.

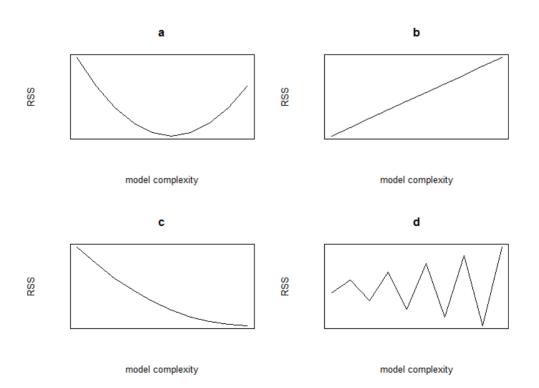
If the features of Model 1 are a strict subset of those in Model 2, which model will USUALLY have lower BIAS?

- O Model 1
- Model 2
- O It's impossible to tell with only this information

1 point

5.

Which of the following plots of model complexity vs. RSS is most likely from TRAINING data (for a fixed data set)?



0	b						
0	c d						
	u						
1 poin	t						
6. Which of the following plots of model complexity vs. RSS is most likely from TEST data (for a fixed data set)?							
	a		b				
RSS		RSS					
	model complexity		model complexity				
	С		d				
RSS		RSS					
	model complexity		model complexity				
0	a						

O bO cO d

μυπι	
7. It is al v	ways optimal to add more features to a regression model.
0	True
0	False
1 poin	t
	le model with few parameters is most likely to suffer from:
0	High Bias
0	High Variance
9. A comp	plex model with many parameters is most likely to suffer from: High Bias High Variance
	el with many parameters that fits training data very well but does on test data is considered to be
0	accurate
0	biased
0	overfitted
0	poorly estimated

11. A common process for selecting a parameter like the optimal polynomial degree is: O Bootstrapping O Model estimation O Multiple regression O Minimizing test error O Minimizing validation error
A common process for selecting a parameter like the optimal polynomial degree is: O Bootstrapping O Model estimation O Multiple regression O Minimizing test error
degree is: O Bootstrapping O Model estimation O Multiple regression O Minimizing test error
O BootstrappingO Model estimationO Multiple regressionO Minimizing test error
Model estimationMultiple regressionMinimizing test error
Multiple regressionMinimizing test error
Minimizing test error
Minimizing validation error
1 point
12. Selecting model complexity on test data (choose all that apply):
_
Allows you to avoid issues of overfitting to training data
Provides an overly optimistic assessment of performance of the resulting model
Is computationally inefficient
Should never be done
1
point
13.
Which of the following statements is true (select all that apply): For a fixed model complexity , in the limit of an infinite amount of training data,
_
The noise goes to 0
Bias goes to 0
Variance goes to 0
Training error goes to 0

Generalization error goes to 0		
	-	
Submit Quiz		
Ď	₽	