[Quiz] Polynomial Modeling & Regularization

- Due 2 Mar at 23:59
- Points 11

TrueFalse

- Questions 11
- Time limit None Allowed attempts 2

This quiz is no longer available as the course has been concluded.

Attempt history

Attempt history	Attempt 1	Time	Score
Answers will be sho	wn after your last attempt	10 minutes	11 out of 11
Score for this attempt: 1 Submitted 2 Mar at 11:4 This attempt took 10 mir	1 out of 11 8		
Question 1 1 / 1 pts Which of the following a	re <u>true</u> about overfitting?		
regularizing helps reduce Having a high training a Having too simple of a n	nd testing error is a good indicator of overfitting		
Overfitting is due to fitting Having a low training en	g to the noise of the data. or and high testing error is a good indicator of overfi	tting	
Question 2 1 / 1 pts	to having too many degrees of freedom		
	egularization always results in equal or better	performance on our test data.	
Question 3 1 / 1 pts	sing <u>ordinary least squares</u> without <u>regulariz</u>	<u>ration</u> requires which of the following hyperparamte	ers to be set?
☐ lambda (regularization to degree	erm)		
ofit perfectly	for ridge regression can cause your model to	to the training data.	
overfit underfit			
Question 5 1 / 1 pts The following polynomia	I has how many degrees?		
$22 + 2x + 3x^3 + 9x^4$			
143			
2 iii Question 6			
1 / 1 pts If our training data has 4	features and we apply a polynomial transform	nation using degree 5 to all our features, how many	y new features will we have?
20425			
○ 15 			
1 / 1 pts A model is likely to be o	verfitting if it has a		
low variance high bias low bias			
high varianceQuestion 8			
1 / 1 pts A model is likely to be use low vairance	nderfitting if it has		
high vairance high bias			
○ low bias ∷ Question 9			
1 / 1 pts Which of the following a	re ways to regularize a model?		
using a more complex nregularization	reducing the number of degrees		
using a simpler model adding more features			
Question 10 1 / 1 pts			
Ridge regression applies $ \mathbf{w} _2 \text{ L2 Norm} $ $ \mathbf{w} _1 \text{L1 Norm} $	s which norm to our cost function?		
$\ \mathbf{w}\ _2^2$ L2 Squared Norm $\ \mathbf{w}\ _3$ L3 Norm	n		
Question 11 1 / 1 pts	tion and character for the control of the control o		
True or false. Regulariza True	auon can always fully solve our overfitting pr	oblems even when our model is overly complex.	