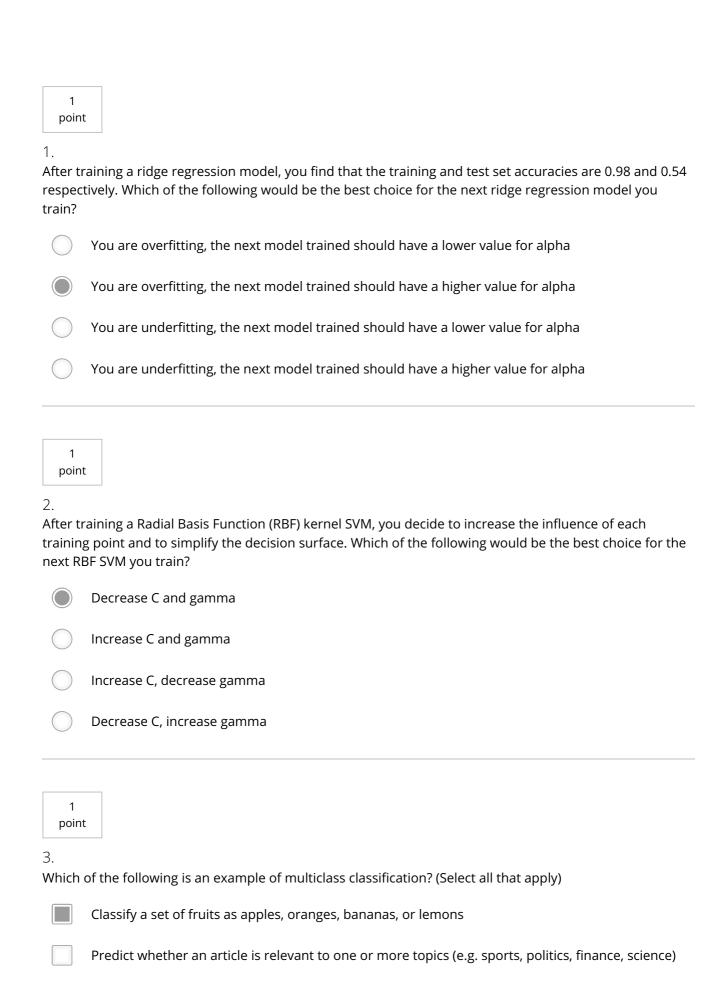
Module 2 Quiz

Quiz, 11 questions



Module 2 Predicting both the rating and profit of soon to be released movie

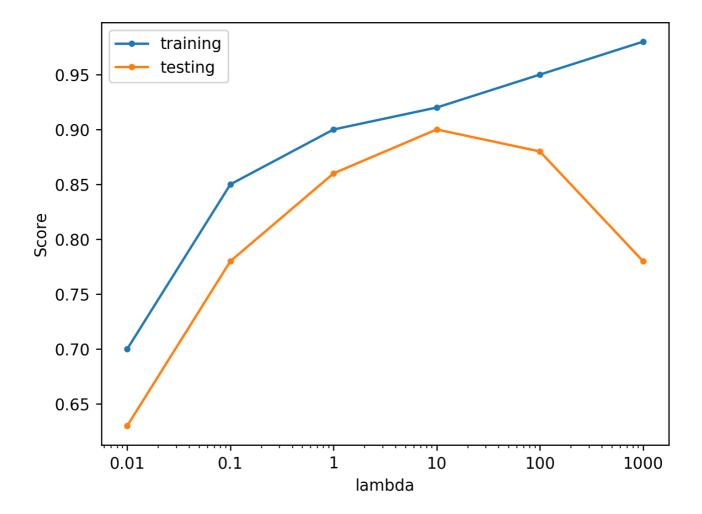
Quiz, 11 questions

Classify a voice recording as an authorized user or not an authorized user.

1 point

4.

Looking at the plot below which shows accuracy scores for different values of a regularization parameter lambda, what value of lambda is the best choice for generalization?



10

1 point

5.

Suppose you are interested in finding a parsimonious model (the model that accomplishes the desired level of prediction with as few predictor variables as possible) to predict housing prices. Which of the following would be the best choice?

Lasso Regression Module 2 Quiz Quiz, 11 question Ridge Regression

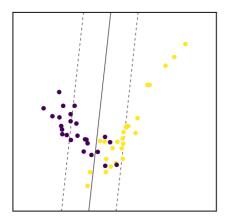
Logistic Regression

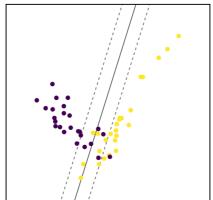
Ordinary Least Squares Regression

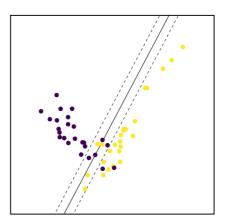
1 point

6.

Match the plots of SVM margins below to the values of the C parameter that correspond to them.







1, 0.1, 10

10, 0.1, 1

0.1, 1, 10

10, 1, 0.1

1 point

7.

Use Figures A and B below to answer questions 7, 8, 9, and 10.



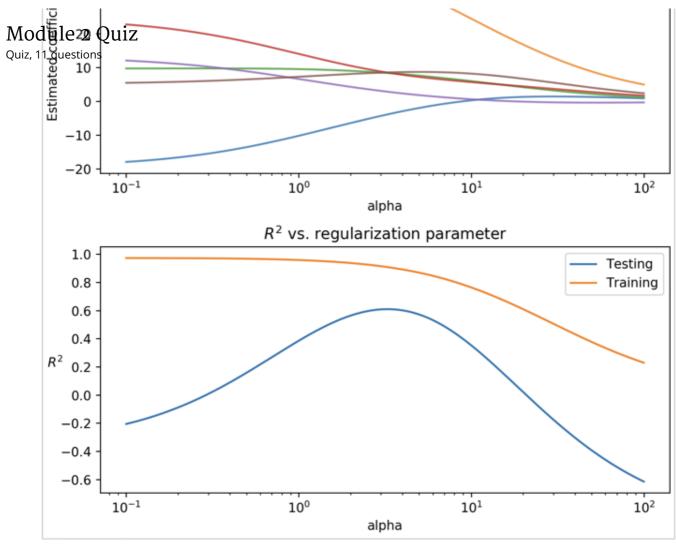
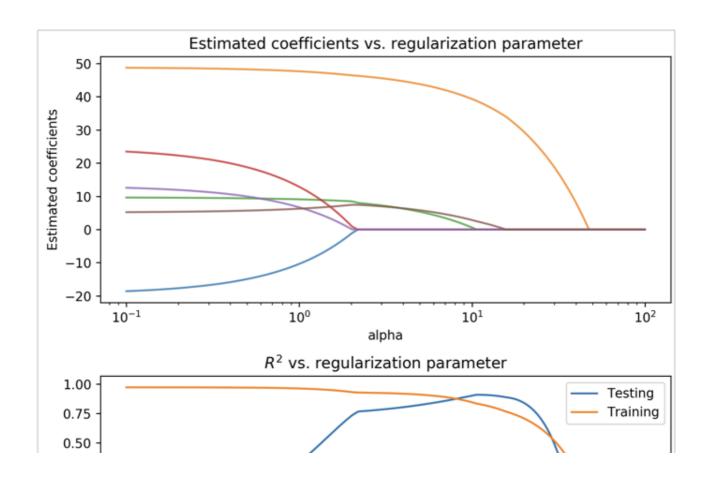


Figure A



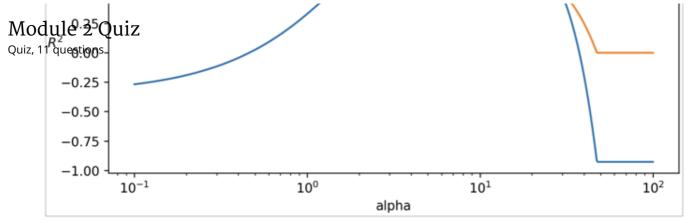


Figure B

Looking at the two figures (Figure A, Figure B), determine which linear model each figure corresponds to:

- Figure A: Ridge Regression, Figure B: Lasso Regression
- Figure A: Lasso Regression, Figure B: Ridge Regression
- Figure A: Ordinary Least Squares Regression, Figure B: Ridge Regression
- Figure A: Ridge Regression, Figure B: Ordinary Least Squares Regression
- Figure A: Ordinary Least Squares Regression, Figure B: Lasso Regression
- Figure A: Lasso Regression, Figure B: Ordinary Least Squares Regression

1 point

Looking at Figure A and B, what is a value of alpha that optimizes the R2 score for the Ridge Model?

3

1 point

9.

Looking at Figure A and B, what is a value of alpha that optimizes the R2 score for the Lasso Model?

10



10.

When running a LinearRegression() model with default parameters on the same data that generated Figures A and B the output coefficients are:

Coef 0	-19.5
Coef 1	48.8
Coef 2	9.7
Coef 3	24.6
Coef 4	13.2
Coef 5	5.1

8	nat value of Coef 3 is R2 score maximized for the Ridge Model?
1 poin	t
11.	
Which	of the following is true of cross-validation? (Select all that apply)
	Removes need for training and test sets
	Fits multiple models on different splits of the data
	Increases generalization ability and computational complexity
	Increases generalization ability and reduces computational complexity
	Helps prevent knowledge about the test set from leaking into the model
th	Aksha Ali , understand that submitting work that isn't my own may result in permanent failure of is course or deactivation of my Coursera account.

Submit Quiz





Module 2 Quiz Quiz, 11 questions