✓ Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

grade 100%

Quiz 4

Olinear

LATEST SUBMISSION GRADE 100%					
1. If unbiased a Fewer More	accuracy assessment is important, than use folds in the K-fold cross-validation stage.	1/1 point			
Logistic Gaussia Linear S	er attempts to maximize the margin around the separating hyperplane. Regression In Naive Bayes Support Vector Machines Linear Discriminant Analysis	1/1 point			
of the obser feature training class	has a number of parameters that needed to be estimated, or learned. This is typically performed on a subset vations called the data.	1/1 point			
 testing Cor 4. When perform hyperplane. V-1 V-2 V 	rect rming linear classification in V-dimensions, the boundary can be described as a dimensional	1/1 point			
 ∫ 1 ✓ Cor 5. In K-fold cro K 1 K-1 K-2 	rect ss-validation, how many folds are used to train the classifier in each step?	1/1 point			
✓ Cor	ank: Solving SVMs is a programming problem.	1/1 point			

	✓ Correct	
7.	Which of the following could potentially be used as features in an MVPA analysis? (Check all that apply) Average of several voxels in an ROI Averaged fMRI data over a block Correct Beta values from a GLM analysis	1/1 point
	✓ Correct ✓ Raw fMRI data over both space and time ✓ Correct	
8.	When performing feature selection why is it is not permissible to select voxels that appear to distinguish between classes using information from the entire data set. Information in the test data set may affect the learning of the classifier and bias subsequent accuracy measures. Information in the training data set may affect the learning of the classifier and bias subsequent accuracy measures. Both of these options Neither of these options	1/1 point
9.	True or false: Support vector machines can only be used if the data is linearly separable. True False Correct	1/1 point
10	. Which of these is not important when applying machine learning to brain data? ○ Prediction accuracy ○ None of these options ○ Generalizability to new samples ○ Interpretability of the results	1/1 point
11	. Which types of MVPA maps are the easiest to interpret in neuroscientific terms? Maps estimated with radial basis function kernels Nonlinear SVM maps Linear regression or logistic regression maps Polynomial regression maps ✓ Correct	1/1 point
12	True or false: Machine learning analyses can be conducted on activation data, but not connectivity data: True False	1/1 point

✓ Correct