Your grade: 90% Next item → Increasing k will usually reduce the variance of estimated parameters. Increasing & will usually increase the variance of estimated parameters.
 Increasing & will usually increase the variance of estimated parameters.
 Increasing & will increase the variance of estimated parameters if models are models are overfit. 2. Which statement about K-fold cross-validation below is TRUE? 1/1 point Each subsample in K-fold cross-validation has at least k observations. Each of the A subsamples in K-fold cross-validation is used as a training set.
 Each of the A subsamples in K-fold cross-validation is used as a training set.
 None of the above Correct
 Correct! You can find more information in the cross-validation lessons. 3. If a low-complexity model is underfitting during estimation, which of the following is MOST LIKELY true (holding the model constant) about K-fold cross-validation? Assuming there is enough training data the number of folds in K-fold validation does not infresult in underfitting. K-cross-validation with a small k will reduce or eliminate underfitting.
 K-fold cross-validation with a large k will reduce or eliminate underfitting.
 None of the above. Correct
 Correct You can find more information in the cross-validation lessons.
 Cross-validation with a small k will reduce or eliminate overfitting.
 A high variance of parameter estimates across cross-validation subs A low variance of parameter estimates across cross-validation subsamples indicates likely overfitting. Cross-validation with a large k will reduce or eliminate overfitting. ⊙ Correct Correct! You can find more information in the cross-validation lessons. Reviewing the below graph, what is the model considered when associated with the left side of this curve before hitting the plateau? $J_{\mathrm{train}}(oldsymbol{ heta})$ training Linear regression
 Cross validation error Underfitting Correct
 Correct Models associated with the left side of this curve before hitting the plateau are considered underfitting. Which means the training and cross validation errors are both very high.
 Overfitting
 Polynomial regre
 Training error
 Underfitting Correct: Models associated with the right side of the cross validation error are considered or Which means the training error is low and the cross validation is high. O 'cross_val' 'cross_validation'
'cross_validation_predict'

o 'cross_val_predict' ⊙ Correct Correct! You can find more information in the Cross Validation Demo videos. 1/1 point Cross-validation is essential step in hyperparameter tuning.
 We can manually generate folds by using KFold function. GridSearchCV is commontly used in cross-validation. All of the above are True. Correct
 Correct! You can find more information in the Cross Validation Demo videos. GridSearchCV scans over a dictionary of parameters. GridSearchCV finds the hyperparameter set that has the best out-of-sample score
 GridSearchCV retrains on all data with the "best" hyper-parameters.

1/1 point

10. Which of the below functions, randomly selects data to be in the train/test folds?

○ 'StratifiedKFold'

All of the above are True.

'KFold' and 'StratifiedKFold
'KFold'

'KFold'

Correct
 Correct You can find more information in the Cross Validation Demo videos.