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Starte	ed on Thursday, January 25, 2018, 10:36 PM State Finished
Complete	
Time t	19 mins 20 secs
	Frade 58.67 out of 60.00 (98%)
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Question 1 Complete 4.00 points out of	Which of the following hyperparameters are accepted by the LogisticRegression estimator in the scikit-learn library? Select all that apply:
4.00	Select one or more:
	✓ a. fit_intercept
	b. max_depth
	✓ c. penalty
	✓ d. class_weight
	e. degree
	f. kernel
	✓ g.C
Question 2	In words, what is the logit function?
Complete	
4.00 points out of	Select one:
4.00	a. odd logs
	b. error odds
	c. log odds
	d. log error
Question 3 Complete	When using categorical variables in logistic regression, why should you leave one category out of the model?
4.00 points out of	Colort and
4.00	Select one:
	a. To avoid convergence
	b. To add correlation
	c. To add multicollinearity
	d. To avoid multicollinearity

Question 4 Complete	Which of the following situation is NOT appropriate to apply a logistic regression model?
4.00 points out of	Select one:
4.00	a. To predict whether a patient has diabetes based on the age of the patient.
	 b. To predict how many points a student could get based on how many hours the student has spent on a course.
	c. To predict whether a patron is a smoker or not based on the tip
	d. To predict whether an American citizen vote Democratic or Republican based on the income level.
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Question 5 Complete 4.00 points out of	What are the benefits of employing a stochastic gradient descent classifier to perform logistic regression over the standard logistic regression estimator in the scikit-learn library?
4.00	Select All that Apply:
	Select one or more:
	a. It employs regularization to reduce over-fitting.
	 b. It will always give a better performance than the standard logistic regression estimator.
	 c. It can be efficient in finding the minimum of the cost function as stochastic gradient descent is less prone to being trapped in local minima (or valleys).
	d. It does not automatically employ regularization.
Question 6 Complete	Which of the following are hyperparameters for DecisionTreeClassifier estimator from the scikit-learn tree module
4.00 points out of	Select one or more:
4.00	
	✓ c. criterion
	d. min_samples_split
	✓ f. max_depth
	g. max_iter
	□ h. kernel

Question 7 Complete	Which of the following can be used to determine how to split a Decision Tree?
	Select one or more:
4.00 points out of 4.00	✓ a. Gini Impurity
	✓ b. Information gain
	c. Correlation
	✓ d. Variance Reduction
Question 8	What is NOT a term that describes dimensions in a data set, according to the R2D3
Complete	article about decision trees?
4.00 points out of 4.00	Select One:
	Select one:
	a. aspects
	b. predictors
	c. features
	d. variables
Question 9	Entropy provides:
Complete	Select one or more:
2.67 points out of	 ✓ a. A measure of unexpectedness
4.00	b. A statistical measure of the information content
	c. A measure of size
	C. A medsure or size
	□ d. A measure of purity
Question 10	
Question 10 Complete	d. A measure of purity What are terminal nodes in a decision tree called?
Complete	
	What are terminal nodes in a decision tree called?
Complete 4.00 points out of	What are terminal nodes in a decision tree called? Select one:
Complete 4.00 points out of	What are terminal nodes in a decision tree called? Select one: a. Stem nodes

Question 11 Complete	According the introduction to svm notebook, what is perhaps the most significant hyperparameter for an SVC?
4.00 points out of	Select one:
4.00	a. C the peanalty parameter
	○ b. gamma
	c. the kernel
Question 12	What are the potential disadvantages for using SVM ?
Complete	Select ALL that apply:
4.00 points out of	Select one or more:
4.00	a. Even after the model is trained, the prediction phase may be very slow.
	 ✓ b. For large numbers of training samples, the computational cost can be
	prohibitive.
	c. They are unable to adapt to various types of data.
	d. The results are strongly dependent on a suitable choice for the softening
	parameter C. This must be carefully chosen via cross-validation, which can be expensive as datasets grow in size.
	e. The results do not have a direct probabilistic interpretation.
	e. The results do not have a direct probabilistic interpretation.
Question 13	What's the purpose of an ROC curve?
Complete	Select one:
4.00 points out of	a. To display the relationship between the number of false positives and true positives as a function of probability threshold.
	 b. To display the relationship between the number of true negatives and false positives as a function of probability threshold.
	 c. To display the relationship between the number of true negatives and true positives as a function of probability threshold.
Question 14	If the area under a ROC curve is 0.5 what does this mean?
Complete	If the area under a ROC curve is 0.5 what does this mean? Select one:
Complete 4.00 points out of	Select one:
Complete 4.00 points out of	Select one: a. My classifer is randomly guessing.
Complete 4.00 points out of	Select one: a. My classifer is randomly guessing. b. My classifer is very accurate.

Question 15	Which svm kernels are supported in sklearn?
Complete	
4.00 points out of 4.00	Select one or more:
	a. user defined functions
	✓ b. polynomial kernel
	c. radial basis function kernel
	✓ d. sigmoid kernel
	✓ e. linear kernel