Started o	on Wadnesday January 21, 2019, 11,20 DM
Started	
Time take	Wednesday, January 31, 2018, 11:59 PM 20 mins
	de 56.00 out of 60.00 (93%)
Grad	30.00 Out 01 00.00 (30 /0)
	Which of the following are hyperparameters for Imputer in scikit learn preprocessing module?
4.00 points out	Select one or more:
of 4.00	✓ a. strategy
(	b. fit_transform
	c. most_frequent
	✓ d. missing_values
(	✓ e. axis
Complete	What is the estimator we use to perform regression with extra algorithm called?
4.00 points out	Select one:
of 4.00	a. ExtraTreesClassifier
	b. ExtraTreesRegression
	c. ExtraTreesRegressor
	d. ExtraTrees
Question 3	
· ·	Which of the parameters can be adjusted to improve performance of Adaboost estimator?
4.00 points out	Select one or more:
of 4.00	a. n_classes
	✓ b. n_estimators
(	c. random_state
(	✓ d. learning_rate

Question 4 Complete	Which of the following python commands correctly imports gradient-boosted classification trees?
4.00 points out of 4.00	Select one:
	Select one:
	<u>а</u> .
	from sklearn.ensemble import gradient_boosting_classifier
	O b.
	from sklearn import Gradient-BoostedClassificationTrees
	• C.
	from sklearn.ensemble import GradientBoostingClassifier
	O d.
	from scikit_learn import Gradient_Boosting_Classifier
	<u> </u>
	from sklearn import GradientBoostingRegressor
<b>E</b>	
Question 5 Complete	What does the StandardScaler method from sklearn.preprocessing do?
	Select one:
4.00 points out of 4.00	a. Transform data to have zero mean and unit standard deviation.
	b. Transform data to have unit mean.
	c. Transforms data to lie between a zero and maximum value.
	d. Transforms data to lie between a minimum and maximum value, often the range [0, 1].

In the "Classification: Adult Model" example, why do we compute the zero model before creating the RandomForestClassifier e stimator?
Select one:
a. It helps select features for further modeling
<ul> <li>b. It sets a useful baseline for how well an algorithm should perform in order to be useful in practice.</li> </ul>
c. The model provides insights into the data
d. It is not subject to hyperparameter tuning to improve the performance
Which of the following are hyperparameters for AdaboostClassifier
or AdaboostRegressor?
Select one or more:
✓ a. learning_rate
✓ b. algorithm
c. max_samples
✓ d. n_estimators
e. max_features
✓ f. base_estimator
Which boosting algorithm supports arbitrary cost or loss functions?
Select one:
a. Random Boost
o b. Adaboost
c. Gradient Tree Boosting
d. Gradient Adaboost
Which class or function do I use to create a Pipeline object in sklearn?
Select one:
a. sklearn.Pipeline
b. sklearn.pipeline.Pipeline
o c. Pipeline
d. sklearn.pipeline

Question 10	Formally what is a Bootstrap?
Complete	
4.00 points out of 4.00	Select one:  a. Bootstrap refers to any statistical process that does not rely on the generation of random samples with replacement.
	<ul> <li>b. Bootstrap refers to any statistical process that does not rely on the generation of random samples without replacement.</li> </ul>
	<ul> <li>c. Bootstrap refers to any statistical process that relies on the generation of random samples with replacement.</li> </ul>
	<ul> <li>d. Bootstrap refers to any statistical process that relies on the generation of random samples without replacement.</li> </ul>
Question 11	One quick test to see if objects can be used in a pipeline is to check if
Complete 4.00 points out	transformation objects have a transform method, and learning algorithms have a predict method.
of 4.00	Select one:
	True
	O False
40	
Question 12	The extra trees algorithm does not select the best threshold on which to split
Complete	automatically. Instead, the extra trees computes a set of random thresholds and selects the best split value from this random set.
4.00 points out	
of 4.00	Select one:
	True
	O False
Question 13 Complete	Which best defines "soft" voting in Voting Classification?
Complete	Which best defines "soft" voting in Voting Classification?  Select one:
Complete 0.00 points out	Select one:
Complete 0.00 points out	Select one:  a. majority voting on summed classification probabilities
Complete 0.00 points out	Select one:  a. majority voting on summed classification probabilities  b. minority voting based on input classifications
Complete 0.00 points out	Select one:  a. majority voting on summed classification probabilities  b. minority voting based on input classifications  c. majority voting based on input classifications
Complete 0.00 points out	Select one:  a. majority voting on summed classification probabilities  b. minority voting based on input classifications  c. majority voting based on input classifications

Question 14 Complete	Which of the following are the hyperparameters for GradientBoostingClassifier from the scikit–learn ensemble module?
4.00 points out of 4.00	Select one or more:  a. n_estimators  b. criterion  c. max_depth  d. learning_rate  e. min_samples_leaf  f. n_jobs  g. loss
Question 15 Complete	According to the intro2bat notebook, which of the following are advantages of using bagging algorithms?
4.00 points out of 4.00	Select one or more:  a. Less prone to overfitting.
	<ul><li>b. Improved performance on unbalanced data</li><li>c. Improved prediction.</li></ul>
	d. The out-of-bag data provides a useful metric for the performance of each individual tree used in the ensemble.