Module 14 Quiz:

Machine Learning: Classification

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- A. Measure the quality of the split in a decision tree
- B. Decide the number of decision trees to be used in a random forest
- C. Find the optimal height of a decision tree
- D. Find the optimal branching factor (number of children at each tree node) for the decision tree

Answer: A

- 2. When building a tree in a random forest, using out-of-bag (OOB) error estimates help reduce the need to perform explicit cross validation.
- A. True
- B. False

Answer: A

- 3. In k-fold cross-validation, each data point is used for validation exactly once.
- A. True
- B. False

Answer: A

- 4. Reducing a model's ROC curve to a single AUC number (area under the curve) can succinctly summarize the tradeoff between the model's true positive rate and false positive rate (as the model's discrimination threshold varies)
- A. True
- B. False

Answer: B







5. Supervised learning needs labeled data for building models for data analysis.
A. True B. False
Answer: A
6. Data has to been separated into training and testing data in the procedure of building machine learning models.
A. True B. False
Answer: A
7. Logistic regression is a non-linear classification model.
A. True B. False
Answer: B
8. In the process of building a decision tree, it will implement feature selection.
A. True B. False
Answer: A
9. Ensemble learning is to build a set of weak learners and combine them to build a strong learner.
A. True B. False
Answer: A







