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1.	Which one of the following is common to both machine learning and statistical inference?  Using sample data to make inferences about a hypothesis.  Using population data to make inferences about a multi sample.  Using population data to make inferences about a multi sample.  Using population data to mode a null hypothesis.	1/1 point
2.	© correct Correct, in both machine learning and statistical inference, we're using sample data to infer qualities of the underlying population distribution. Which one of the following describes an approach to customer churn prediction stated in terms of probability?	1/1 point
	Predicting a score for individuals that estimates the probability the customer will stay.  Chur prediction is a data generating process representing the actual joint distribution between our x and the yvariable.  Data related to churn may include the target variable for whether a certain customer has left.  Predicting a score for individuals that estimates the probability the customer will leave.  Cerest Correct. Churn prediction is often approached by predicting a score for individuals that estimates the probability the customer will leave.	
3.	What is customer lifetime value?  ② The total purchases over the time which the person is a customer.  ○ The total churn a customer generates in the population.  ○ The total churn generated by a customer over their lifetime.  ○ The total value that the customer receives during their life.  ○ Cerrect  Correct Customer lifetime value consists of the purchase amounts over the entire time that a person has been a customer.	1/1 point
4.	Which one the following statements about the normalized histogram of a variable is true?  It is a parametric representation of the population distribution.  It is a non-parametric representation of the population variance.  It provides an estimate of the variable's probability distribution.  It serves as a bar chart for the null hypothesis.  Cerrect  Correct. The normalized histogram of a variable estimates the variable's probability distribution, and	1/1 point
5.	the estimate improves with the amount of data used.  The outcome of rolling a fair die can be modelled as a distribution.  Poisson  log normal  normal  outcome  Carrect	1/1 point
6.	Correct. The chance of rolling any particular value for a fair die is equally likely, so the outcome is uniformly distributed.  Which one of the following features best distinguishes the Bayesian approach to statistics from the Frequentist approach?  Frequentist statistics requires construction of a prior distribution.  Bayesian statistics is better than Frequentist.  Bayesian statistics incorporate the probability of the hypothesis being true.  Frequentist statistics incorporates the probability of the hypothesis being true.  Correct. Bayesian statistics allows for experimenters to incorporate their prior beliefs of the [population] distribution [or a given variable]. For frequentists, it's solely based on the data available, that is, these to normal mechanism in frequentist statistics for incorporating por knowledge, one available.	1/1 point
7.	"lets the data do the talking")  Which of the following best describes what a hypothesis is?  A hypothesis is a statement about a posterior distribution.  A hypothesis is a statement about a prior distribution.  A hypothesis is a statement about a sample of the population.  A hypothesis is a statement about a sample of the population.  Cerrect  Correct. A hypothesis could be suggested by a sample of the population, but it is a statement about the entire population.	1/1 point
8.	A Type 2 error in hypothesis testing is :  incorrectly accepting the null hypothesis.  incorrectly accepting the alternative hypothesis.  correctly rejecting the null hypothesis.  correctly rejecting the alternative hypothesis.  Carrectl Correctly Accepting the alternative hypothesis.	1/1 point
9.	Which statement best describes a consequence of a type II error in the context of a churn prediction example? Assume that the null hypothesis is that customer churn is due to chance, and that the alternative hypothesis is that customer smolelled for greater than two pares will not churn one of the next year.  You correctly conclude that a customer will eventually churn  You correctly conclude that customer churn is by chance  You incorrectly conclude that there is no effect  You incorrectly conclude that customer churn is by chance  You incorrectly conclude that customer churn is by chance  You incorrectly conclude that customer churn is by chance	1/1 point
10.	Correct. A type II error means that you incorrectly accept the null hypothesis, so you incorrectly conclude that customer churn is by chance.  Which of the following is a statistic used for hypothesis testing?  The rejection region.  The standard deviation.  The acceptance region.  Correct. The likelihood ratio can be used as a test statistic, to decide whether to accept or reject the correct.	1/1 point