AiUTM Certified Tester in Artificial Intelligence (CTAI) $Sample \ exam - 10 \ Questions$

Released Version 2019 Syllabus



Artificial Intelligence United

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Purpose of this document

This document contains 10 sample exam questions for AiU Certified Tester in Artificial Intelligence (CTAI) in the English language.

The sample questions, answer sets and associated justifications in this document have been created by a team of subject matter experts and experienced question writers with the aim of assisting people who are planning to take the AiU Certified Tester in Artificial Intelligence (CTAI) examination.

None of these questions are used in the official AiU Certified Tester in Artificial Intelligence (CTAI) examination, but they are written to the same level of difficulty as the official certification exam.

Instructions

The question and answer sets are organized in the following way:

- Chapters
- · Question including any scenario followed by the question stem
- · Answer Set

General Information on the sample exam paper:

- Number of Ouestions: 10
- Number of points: 1 per question
- Please only choose one answer per question

List of Chapters

- Chapter 1 Introduction to Artificial Intelligence
- Chapter 2 Overview of Testing AI Systems
- Chapter 3 Offline Testing of AI Systems
- Chapter 4 Online Testing of AI Systems
- Chapter 5 Explainable AI
- · Chapter 6 Risks and Test Strategy for AI Systems
- Chapter 7 AI for Software Testing Life Cycle (STLC)

Qu	esti	on 1	(the correct answer is worth 1 point)
		set, a pair of highly correlated input variable is or occessing step required on the pair of columns	
	(a)	Drop one of the columns	
	(b)	Drop both the columns	
	(c)	Represent one column as function of another	column
	(d)	Keep both the columns	
Qu	esti	on 2	(the correct answer is worth 1 point)
	nsupe ia me	ervised clustering, as the number of clusters in etric?	creases, what is its effect on the value of
	(a)	Inertia increases.	
	(b)	Inertia decreases	
	(c)	Inertia remains unchanged	
	(d)	Inertia is independent of the number of cluste	ers.

Question 3

(the correct answer is worth 1 point)

Which **ONE** of the following options is the **BEST** set of metrics to measure the quality of an unsupervised association rule?

- □ (a) Support & Confidence
- ☐ (b) Confidence & Lift
- $\ \square$ (c) Support & Lift
- $\ \square$ (d) Support, Confidence & Lift

Qu	esti	on 4	(the correct answer is worth 1 point)		
	nsupe reflec		value of the lift metric is equal to 1.0, what does		
	(a)	No association			
	(b)	Positive association			
	(c)	Negative association			
	(d)	Impossible value			
Question 5 (the correct answer is worth 1 points					
		NE of the following options BEST reprenentate explanations for a model?	esents the mechanism employed by the LIME		
	(a)	Examining the model algorithm type			
	(b)	Examining values of algorithm param	neters		
	(c)	Examining variations in output on pe	rturbing input samples		
	(d)	Computing metrics value of the mode	el		
Question 6			(the correct answer is worth 1 point)		
Whi	ch Ol	NE of the following options BEST repre	esents the functioning of metamorphic testing?		

= (a) Dy computing model metrics

 $\hfill \square$ (a) By computing model metrics

☐ (b) By applying cross-validation

☐ (c) By using Grad-CAM

 $\hfill \square$ (d) By verifying implicit relation(s) among input variables

Qu	esti	on 7	(the correct answer is worth 1 point)
Duri	ng wl	nich ONE of the following	g phases is the testing for accuracy of a model performed?
	(a)	Online testing	
	(b)	Offline testing	
	(c)	Load testing	
	(d)	Regression testing	
Que	esti	on 8	(the correct answer is worth 1 point)
		NE of the following optio ifier model used for can	ns is the MOST relevant metric for measuring the performance cer detection?
	(a)	Accuracy	
	(b)	F1score	
	(c)	Sensitivity	
	(d)	Precision	
Question 9			(the correct answer is worth 1 point)
that	the N	• • • • • • • • • • • • • • • • • • • •	ns is the BEST suited Machine Learning type to be applied so relevant advertisement to a user, based on the keywords (s)he
	(a)	Clustering	
	(b)	Classification	
	(c)	Market basket analysis	
	(d)	Regression	

If a set of words occurs repeatedly in a given text, one should (where possible) remove these words from the text, as they will not add value to the Machine Learning analysis of the text. What are these (removable) words known as?

- □ (a) Tokens
- ☐ (b) Stop words
- ☐ (c) Chats
- ☐ (d) POS tags

Answer Key:

- Question 1 Answer: (a)
- Question 2 Answer: (b)
- Question 3 Answer: (d)
- Question 4 Answer: (a)
- Question 5 Answer: (c)
- Question 6 Answer: (d)
- Question 7 Answer: (b)
- Question 8 Answer: (c)
- Question 9 Answer: (c)
- Question 10 Answer: (b)