## Weekly Assessment

ΑI

Points: 44/50 Time: 25:51

1. Name of the Student \*

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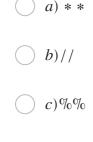
- 2. Name of the NSTI \*
  - NSTI Kolkatta
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- 3. Email Id \*

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- 4. What will be the output of the following code?
  - $a = {\text{'key1': 1, 'key2': 2}}$

	print(a['key2']) *
	(a)1
	(b)2
	( )key2
	( d)Error
	X Incorrect 0/1 Points
5.	Which of the following is not a valid Python operator? *
	(a) * *
	○ b)//



( ) d) @

## ✓ Correct 1/1 Points

6. What will be the output of the following code?

list1 = [1, 2, 3, 4, 5] list2 = list1 list2.append(6) print(list1)

- (a)[1,2,3,4,5]
- (b)[1,2,3,4,5,6]
- $\bigcirc$  c)[6]

	✓ Correct 1/1 Points								
7. Which of the following algorithms is used in unsupervised learning for clustering									
	(a)Linear regression								
	$\bigcirc$ $c)K$ – means								
	(a) Decision trees								
	✓ Correct 1/1 Points								
8.	What is the main goal of unsupervised learning? *								
(a) To predict future outcomes									
	(a) b)To find hidden patterns in data								
<ul><li>b)To find hidden patterns in data</li><li>c)To label the data</li></ul>									
	(a) To reduce the dim ensionality of data								
	✓ Correct 1/1 Points								
9.	What will be the output of the following code?								
	for i in range(3):     print(i) *								
	(a) 123								
	(a) b)012								
	○ c)0123								

() (d) [1, 2, 3, 4, 5, 6, 6]

	() d)12									
	✓ Correct 1/1 Points									
10. Which Al application involves converting spoken language into text?										
(a) Image recognition										
	b)Speech − to − text									
	$\bigcirc$ c) Text $-$ to $-$ speech									
	(a) Virtual reality									
	✓ Correct 1/1 Points									
11.	Which machine learning technique is used for classification problems? *									
	() $a)K$ – meansclustering									
	(a) b)Decisiontrees									
	( c)Apriorialgorithm									
	( d)Linearregression									
	✓ Correct 1/1 Points									
12										
12.	Which of the following is an application of unsupervised learning? *									
	( ) a)Spamdetection									
	(a) b) Customersegmentation									
	( )Stockpriceprediction									
	(a) Housepriceprediction									

13. Which algorithm is used in supervised learning? *									
$\bigcirc a)K$ – means clustering									
(a) b)Decision trees									
( )Apriori a lg orithm									
(a) PCA(Pr incipalComponentAnalysis)									
✓ Correct 1/1 Points									
14. In supervised learning, what is the 'target variable'? *									
(a) The variable being predicted									
( b)The variable used to train the model									
$\bigcirc$ c)The variable that is ignored									
(a) The variable used to test the model									
✓ <b>Correct</b> 1/1 Points									
15. What is the definition of Machine Learning (ML)? *									
( ) a)Thes tudy of human learning									
(a) b)A method of data analysis that automates analytical model building									
( ) The process of making machines learn program min glanguages									
(a) The development of new hardware									

✓ Correct 1/1 Points

def multiply(a, b=2): return a * b
result = multiply(5) print(result) *
(a) 10
( b)5
$\bigcirc$ c)2
$\bigcirc$ d) $Error$
✓ Correct 1/1 Points
17. Which application uses AI to understand and respond to human speech? *
$\bigcirc a)$ Video strea min g
$\bigcirc$ b) Voice assis $\tan ts(e. g., Siri, Alexa)$
C)Text editors
(a) Image editors
✓ Correct 1/1 Points
18. Which type of AI is capable of human-level intelligence across a variety of tasks? *
(a)Narrow AI
○ b)Weak AI
© c)General AI

16. What will be the output of the following code?

✓ Correct 1/1 Points
19. When was the term "Artificial Intelligence" first coined? *
(a) 1950
(a) b) 1956
$\bigcirc c$ )1965
( ) d) 1972
✓ Correct 1/1 Points
20. Which of the following is NOT an application of machine learning? *
(a) Emailfiltering
( b)Imagerecognition
(a) Websitedesign
(a) Pr edictivemaintenance
✓ Correct 1/1 Points
21. Which type of machine learning involves an agent learning to make decisions by trial and error? *
(a) Supervised learning
$\bigcirc$ b) Un sup ervised learning
$\bigcirc$ c) Re inforcement learning
(a) Transfer learning

d)Special AI

22.	Who is considered the father of AI? *						
(a)Alan Turing							
	(a) b)John McCarthy						
	c)Marvin Minsky						
	( )Andrew Ng						
	✓ Correct 1/1 Points						
23.	Which method is used to find the index of an element in a list? *						
	(a)find()						
	() b)search()						
	(index()						
	() d)locate()						
	✓ Correct 1/1 Points						
24.	Which algorithm is commonly used in unsupervised learning? *						
	(a)Linearregression						
	$\bigcirc$ b)K – meansclustering						
	C)Logisticregression						
	( )NaiveBayes						

✓ Correct 1/1 Points

25.	25. What is 'clustering' in machine learning? *								
	(a) A sup ervised learning technique								
	<ul> <li>b) Grouping similar data points together</li> <li>c) A re inf orcement learning technique</li> <li>d) A dim ensionality reduction technique</li> </ul>								
	<b>☑</b> Will be reviewed								
26.	What will be the output of the following code? print("Hello World".replace("World", "Python")) *								
	(a) Hello Python								
	( b)Hello World Python								
	$\bigcirc c) Hello Python World$								
	( d)Hello								
	✓ Correct 1/1 Points								
27.	What will be the output of the following code?								
	a = [1, 2, 3] b = a b[0] = 10 print(a)								
	(a)[1,2,3]								
	(a) b)[10, 2, 3]								

 $\bigcirc$  c)[10, 2, 3, 1]

	✓ Correct 1/1 Points																	
28. Which of the following is used to define a block of code in Pythor  (a) Curlybraces (b) Parentheses()																		
									(a) Indentation									
										(a) Squarebrackets[]								
	✓ Correct 1/1 Points																	
29.	Which algorithm is commonly used in unsupervised learning? *																	
	a)Linear regression																	
	$\bigcirc$ b)K – means clustering																	
	C)Logistic regression																	
	(a) Naive Bayes																	
	✓ Correct 1/1 Points																	
30.	What is the definition of Artificial Intelligence (AI)? *																	
	(a) The study of natural intelligence in humans																	
	(a) b) The simulation of human intelligence in machines																	
	( ) The development of computer hardware																	
	( ) d)The study of computer networks																	

() (d)[1,2,3,10]

	✓ Correct	1/1 Points							
31.	How do you	get the number of rows and columns in a DataFrame? *							
	<ul><li>a) df. shape</li><li>b) df. size</li></ul>								
	$\bigcirc$ c)df. len	gth							
	$\int d)df.con$	( ) d)df. count							
	✓ Correct	1/1 Points							
22									
52.	How do you	ı create a DataFrame from a dictionary in Pandas? *							
	$\bigcirc$ a)pd. Da	ataFrame([dict])							
	b)pd.Da	ataFrame(dict)							
	$\bigcirc$ c)pd. Da	ataFrame([dict. keys(), dict. values()])							
$\bigcirc$ d)pd.DataFrame.from_dict(dict)									
	✓ Correct	1/1 Points							
33.	Which of the	e following fields heavily uses AI for predictive analysis? *							
	(a)Astron	nomy							
	(b)Marke	eting							
	( c)Marin	ebiology							
	( d)Sports								

34. Which of the following is the correct syntax to open a file in write mode in Pythor	า? *
a)open('filename',' r')	
(b)open('filename',' w')	
( c)open('filename',' rw')	
( d)open('filename',' wr')	
✓ Correct 1/1 Points	
35. Which function concatenates two DataFrames? *	
$\bigcirc$ a)pd. concat([df1, df2])	
$\bigcirc$ b)pd.join([df1,df2])	
$\bigcirc$ c)pd. combine([df1, df2])	
$\bigcirc d)pd.merge([df1,df2])$	
✓ Correct 1/1 Points	
36. What will be the output of the following code?	
a = [1, 2, 3, 4] b = a.pop() print(b)	
$\bigcirc a)1$	
○ b)2	
$\bigcirc$ c)3	
(a) d)4	

37	Which	of the	following	is the	correct sy	untax for	a lamhda	function?	*
51.	VVIIICII	or the	TOHOWING	is the	correct sy	yiilax ioi	a lallibua	Turiction:	

 $\bigcirc$  a) lambda x: x + 1

 $\bigcirc$  b) lambda (x): x + 1

 $\bigcirc$  c) lambda x => x + 1

 $\bigcirc$  *d*) *lambda* : x + 1

## ✓ Correct 1/1 Points

38. What is Pandas in Python? \*

(a) A web framework

(a) b)Adatamanipulationandanalysislibrary

(a) c) Amachine learning library

(a) d) An operating system

## X Incorrect 0/1 Points

39. How do you import the Pandas library in Python? \*

(a) import pandas as pd

( b)import numpy as np

 $\bigcirc$  c)import pd

(a) d)import pandas as np

40.	Which of the following keywords is used to define a class in Python? *
	(a) function
	( b)define
	c)class
	( d)object
	✓ Correct 1/1 Points
41.	Which principle is central to machine learning? *
	a)Rule – baseddecisionmaking
	(a) b)Learningfromdata
	c)Staticdataprocessing
	(a) Manualdataentry
	✓ Correct 1/1 Points
42.	What will be the output of the following code?
	a = 2
	b = 3 a, b = b, a
	print(a, b) *
	(a) 2 3
	(a) b)3 2
	c)Error

	( ) d)5
	✓ Correct 1/1 Points
43.	What type of machine learning involves labeled data? *
	a)Supervised learning
	$\bigcirc$ b) Un $\sup$ ervised learning
	() Re inf orcement learning
	( ) Self – sup ervised learning
	✓ Correct 1/1 Points
44.	What will be the output of the following code?
	a = [1, 2, 3, 4] print(len(a))
	*
	(a)3
	(b)4
	○ c)5
	( d)Error
	✓ Correct 1/1 Points
45.	Which of the following is an application of Al? *
	$\bigcirc a)$ Word proces $\sin g$
	( b)Email marketing

(a) C) Autonomous vehicles

d) Web brow sin g ✓ **Correct** 1/1 Points 46. Which method provides a boolean DataFrame indicating whether each element is NA? \*  $\bigcirc$  a) df. isna() b)df.isnull()c)df.notna()d)df. notnull()✓ **Correct** 1/1 Points

47. What will be the output of the following code?

```
x = 10
if x > 5:
  print("Greater than 5")
else:
  print("5 or less")
(a) Greaterthan 5
    b)5orless
    c)10
 () d)Error
```

X Incorrect 0/1 Points

48. What is Narrow AI? \*

	(a) AI that can perform multiple tasks simul tan eously
	(b)AI that is focused on a sin gle task
	(a) c)AI with the capability of human – like general intelligence
	(a) d)AI that can only process text
	✓ Correct 1/1 Points
49.	What will be the output of the following code?
	a = [1, 2, 3] a.append([4, 5]) print(a)
	(a)[1,2,3,4,5]
	(a) b)[1, 2, 3, [4, 5]]
	$\bigcirc c)[4,5,1,2,3]$
	() $(d)[[4,5],1,2,3]$
	✓ Correct 1/1 Points
50.	What will be the output of the following code?
	def func(x): return x * x
	print(func(4)) *
	(a)4
	( b)8
	(a) c) 16

	X Incorrect 0/1 Points
51.	In reinforcement learning, what is the 'agent'? *
	a) The entity that makes decisions and learns from actions
	(a) b) The environment in which decisions are made
	( ) The reward signal for correct actions
	(a) The policy for decision making
	✓ Correct 1/1 Points
52.	Which of the following is the primary data structure in Pandas?
	(a)Array
	(a) b)DataFrame
	C)List
	( ) d)Dictionary
	Will be reviewed
	Which of the following is an example of supervised learning? *
55.	a) Grouping news articles into topics
	(b) Pr edicting house prices based on historical data
	(a) c) Identifying anomalies in network traffic
	d)Segmenting customers based on behavior

*d*)20

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