





CERTIFICATION PROGRAMME

On

Introduction of Data Science, Artificial Intelligence & Machine Learning

> **From** 12th September - 06th December 2022

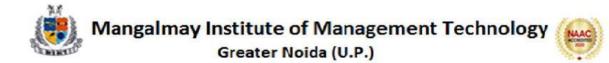
Convener: Dr. Himanshu Rastogi, Associate Professor, MIMT

For BCA IIIrd Semester

Resource Person

Mr. Abhay N Triapthi Associate Professor, MIMT

www.mangalmay.net.in | Plot No. 8 & 9, Knowledge Park-II, Greater Noida, Delhi-NCR, India



Syllabus Introduction of Data Science, Artificial Intelligence, & Machine Learning

Duration: 33 hours

Module I:

Introduction to Data Science: Definition and description of Data Science, history and development of Data Science, terminologies related with Data Science, basic framework and architecture, difference between Data Science and business analytics, importance of Data Science in today's business world, primary components of Data Science, Opportunities in Data Science, Data Scientist, Data Analyst.

Module II:

Overview: Data Mining, Data Warehouse, Difference between database and data warehouse. Definition of Artificial Intelligence, Importance of Artificial Intelligence, Machine Learning, deep Learning.Introduction to Big Data Analytics, BigData technologies, Hadoop.

Module III:

Introduction to Machine Learning: Machine learning basic concepts, Perspectives and Issues in Machine Learning, Types of Machine Learning, supervised–unsupervised–reinforcement,

Supervised learning: Linear Regression, Gradient Descent (GD), Classification- Logistic regression, k-nearest neighbor classifier

Unsupervised Learning:k-means clustering, Association

Text Book:

- Tom M. Mitchell, "MachineLearning. TataMcGraw-HillEducation.
- Alpaydin, E. "Introduction to machine learning. MIT press.
- ElaineRich,KevinKnight: Artificial Intelligence,TataMcGrawHill.
- DataSmart:UsingDataSciencetoTransformInformationintoInsight1stEditionbyJohnW .Foreman.(2015)WileyPublication.
- ArunKPujari, "Data MiningTechniques", 2ndEditionUniversityPress, 2010

Reference Book:

- Dr.AnilMaheshwari, "DataAnalytics", McGrawHillEducation(India)PrivateLimited
- Data Science For Dummies by Lillian Pierson
- TomMMitchell,—MachineLearningl,FirstEdition,McGrawHillEducation.
- D.W.Patterson,"IntroductiontoAIandExpertSystems",PHI,1999.





Schedule

	Duration:33 hours				
Session	Content	Time	Date		
S1	Definition, history & development of Data Science	3:00-4:30	12/09/22		
S2	Terminologies related with Data Science	3:00-4:30	13/09/22		
S3	Basic framework and architecture	3:00-4:30	19/09/22		
S4	Difference between Data Science and Business analytics	3:00-4:30	20/09/22		
S5	Importance of Data Science in today's Business world	3:00-4:30	26/09/22		
S6	Primary components and opportunities of Data Science	3:00-4:30	27/09/22		
S7	Revision	3:00-4:30	10/10/22		
S8	Data Scientist and Data Analyst.	3:00-4:30	11/10/22		
S9	Data Mining and Data Warehouse	3:00-4:30	17/10/22		
S10	Difference between data base and data warehouse	3:00-4:30	18/10/22		
S11	Definition of Artificial Intelligence and its importance	3:00-4:30	31/10/22		
S12	Machine Learning & deep Learning	3:00-4:30	01/11/22		
S13	Introduction to Big Data Analytics & technologies	3:00-4:30	07/11/22		
S14	Hadoop.	3:00-4:30	08/11/22		
S15	Machine learning basic concepts and issues	3:00-4:30	14/11/22		
S16	Types of Machine Learning	3:00-4:30	15/11/22		
S17	Supervised learning: Linear Regression,	3:00-4:30	21/11/22		
S18	Gradient Descent (GD)	3:00-4:30	22/11/22		
S19	Classification-Logistic regression	3:00-4:30	28/11/22		
S20	k-nearest neighbor classifier	3:00-4:30	29/11/22		
S21	Unsupervised Learning: k-means clustering	3:00-4:30	05/12/22		
S22	Association	3:00-4:30	06/12/22		





	Report
Name of Activity	Introduction of Data Science, Artificial Intelligence & Machine Learning
Date	12 th September 2022 to 06 th December 2022
Venue	BCA Classroom
Organized by	Computer Application Department
Resource Person	Mr. Abhay N Triapthi, Associate Professor, MIMT
Beneficiary	BCA 3 rd Semester (84 students)
Convener	Dr. HimanshuRastogi, Associate Professor, MIMT
Objective	 The aim of this certification course is to: Study the concepts of Artificial Intelligence. Learn the methods of solving problems using Artificial Intelligence. Learn the knowledge representation techniques, reasoning techniques and planning
Content	 With the initiative of IQAC, Mangalmay Institute of Management and Technology organized add on certification course on "Introduction Of Data Science, Artificial Intelligence &Machine Learning" The course enabled the students to defining basics of AI & ML, what it comprises and its importance in modern day organization. Day1: The session started with the discussion on introduction of data science history and development of data science Day2: The students in this interactive lesson were aware of the newvocabulary or terminologies used in data science. Day3: Students learned about the basic framework and architecture of data science during this lesson. Day4: The resource people began to draw distinctions between business analytics and data science. Day5: Students gained knowledge in this seminar regarding the value of data science in the modern society. Day6: The primary components & opportunities of data science were covered. Day 7: Revised the whole session from day-1 to day-7 Day8: The resource person discussed about the data scientist and data analyst. Day 9: This session has begun data mining & data warehousing. Day11: Now come to the second part of subject that is Artificial Intelligence and its importance. Day12: The Resource person discussed about the introduction of
	 machine learning and deep learning. Day13: The session was about introduction to bigdata analytics and terminologies. Day14: The resource person now comes to the Hadoop (technology) Day 15: Students learnt the basic concepts of machine learning and its issues or challenges. Day 16: Discuss about the Different types of machine learning.



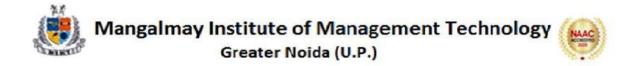
	Day 17: During this session, linear regression technique was explored.			
	Day 18: The resource person discussed gradient descent.			
	Day 19: Classification of machine learning Was discussed.			
	Day 20: The session commences K- nearest neighbor classifier.			
	Day 21: During this session, K-means clustering technique was			
	explored.			
	Day 22: Last topic was discussed that is association.			
Outcome	• Familiar with Artificial Intelligence, its foundation and			
	principles.			
	• Identify appropriate AI methods to solve a given problem.			
	• Examine the useful search techniques, knowledge			
	representation techniques.			

Resource Person Profile

Name: Mr. Abhay N Tripathi Organization: MIMT, Greater Noida Qualification: MCA, PhD(P) Experience: 22 years Research Area: AI & ML



Figure 1 Mr. Abhay N Tripathi taking his lecture on Machine Learning.



Certificate Template:

Management & Technology

ANGALM INSTITUTE OF MANAGEMENT TECHNOLOGY Gr. NOIDA CERTIFICATE OF COURSE COMPELITION This is to certified that Aashish Kumar student of BCA (Batch: 2021-24) has successfully completed 33 Hours course on "Introduction of Data Science, Artificial Intelligence, & Machine Learning" from 12-September-2022 to 06-December-2022 PRINCIPAL CONVENER Mangalmay Institute of Mangalmay Institute of Management & Technology Management Technology INSTITUTE OF MANAGEMENT TECHNOLOGY Gr. NOIDA CERTIFICATE OF COURSE COMPLETION This is to certified the Aashish Kumar student of BCA (Batch: 2021-24) has successfully completed 33 Hours course on "Introduction of Data Science, Artificial Intelligence, & Machine Learning" from 12-September-2022 to 06-December-2022 PRINCIPAL. CONVENER Mangalmay Institute of Mangalmay Institute of

Management Technology



Course: BCA

ADD-ON COURSE QUIZ Course Name: Introduction to DS AI, ML Time: 30 Min Date: 2611212022

TIAN

Roll No:

Name: Vinet

Year/Sem: II/III
Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

	1)	What is the full form of "AI"?		
1		. Artificially Intelligent	J.	Artificial Intelligence
• /	c.	Artificially Intelligence	d.	Advanced Intelligence
	2)	What is Artificial Intelligence?		
	a a	A field that aims to make humansmore intelligent	b.	A field that aims to improve the security
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	A field that aims to developintelligent machines	d.	A field that aims to mine the data
	3)	Who is the inventor of Artificial Inte	elligence?	
0	, a	Geoffrey Hinton	b.	Andrew Ng
1	S	John McCarthy	d	Jürgen Schmidhuber
	4)	Which of the following is the brancl	h of Artificia	al Intelligence?
6	~1	Machine Learning	b	Cyber forensics
7	c	Full-Stack Developer	d	Network Design
	5)	Which of the following is a compon	ent of Artifi	cial Intelligence?
Λ	Ja	Learning	b	Training
/	c	Designing	d	Puzzling
۵	6) W	/hat is true about data mining? Data Mining is defined as the procedure of extracting informationfrom huge sets of	b	Data mining also involves other processes suchas Data Cleaning, Data Integration, Data Transformation
	/	data		<b>-</b>
	c	Data mining is the procedure ofmining knowledge from data.	∽ď	All of the above
	7) D	ata Mining System Classification co	onsists of?	
1-	a	Database Technology	V	Machine Learning
/	c	Information Science	d	All of the above

8)	Whic	ch of the following is correct appl	ication of	'data mining?
Y	a.)	Market Analysis and Management	b.)	Corporate Analysis & Risk Management
11	c.)	Fraud Detection	-tt.)	All of the above
9) J	The a.)	first steps involved in the knowled Data Integration	lge discov b.)	Very are? Data Selection
11	c.)	Data Transformation	d.)	Data Cleaning
10)	ln w <b>a.)</b>	hich step of Knowledge Discover Data Cleaning	y, multipl (بط	e data sources are combined? Data Integration
11	<b>c.</b> )	Data Selection	d.)	Data Transformation
, 11)	Whie	ch of the following is not type of l	earning?	
D	a.)	Unsupervised Learning	b.)	Supervised Learning
1	<b>(</b> .)	Semi-unsupervised Learning	d.)	Reinforcement Learning
12)	Fath	er of Machine Learning (ML)		
A	a.)	Geoffrey Chaucer	b.)	Geoffrey Hill
1/	·C.)	Geoffrey Everest Hinton	d.)	None of the above
13)		d Detection, Image Classification, I hof the following	Diagnostic	, and Customer Retention are applications in
NO	·a.)	Unsupervised Learning: Regression	b.)	Supervised Learning: Classification
	c.)	Unsupervised Learning: Clustering	d.)	Reinforcement Learning
14)			tems, and	Customer Segmentation are applications in
5	a.)	Supervised Learning: Classification	b.)	Unsupervised Learning: Clustering
1/	<b>(</b> ,)	Unsupervised Learning: Regression	'd.)	Reinforcement Learning
15)	· · ·	ications of NN (Neural Network)		
X	<b>a.</b> )	Risk management	b.)	Data validation
11	c.)	Sales forecasting	_et.)	All of the above
				, solar

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Max. Marks: 15

Marks Obtained: 14-

Name of Evaluator: Abnay · N · Tripathz'

			Mangalmay Insti	tute of Mai ater Nolda (U		Technology	
	Cou	rse: BC	ADD-ON	COURSE QUIZ		Time: 30 Min Date: 26/12/	2022
	Roll	No:	Na <mark>me</mark> :	utpul das	Inv	Year/Sem: 11/111 igilator's Sign:	Dr
	Ν	ote: All	questions are compulsory. Eac	h question will ca	nrry <b>'1'</b> mark an	d there is no 'Nega	ive Marking'
ľ	1)	W a.	hat is the full form of "AI"? Artificially Intelligent	<u>́ь</u> .	Artificial In	telligence	
-		c.	Artificially Intelligence	d.	Advanced In	ntelligence	
	2)	W	hat is Artificial Intelligence?				
7		а	A field that aims to make humansmore intelligent	b.	A field that	aims to improve t	he security
		∕¢	A field that aims to developintelligent machines	d.	A field that	aims to mine the o	lata
	3)	W	ho is the inventor of Artificia				
1		a	Geoffrey Hinton	b.	Andrew Ng		
//		X	John McCarthy	d	Jürgen Schn		
	4)	W	hich of the following is the b	ranch of Artifici	al Intelligence	?	
A		a	Machine Learning	b	Cyber forens	ics	
//		с	Full-Stack Developer	d	Network Des	ign	
	5)	W	hich of the following is a cor	nponent of Artif	icial Intelligen	ce?	
4		A	Learning	b	Training		
5/		c	Designing	A	Puzzling		
1	6)	Wha a	at is true about data mining? Data Mining is defined as t procedure of extracting informationfrom huge sets	b		also involves othe Cleaning, Data Int rmation	
	7)	c	data Data mining is the procedu ofmining knowledge from data. Mining System Classificatio		All of the abo	ove	
(And the second	7)	a	Database Technology		Machine Lea	ming	
Y		c	Information Science	d	All of the abo	ti ( i n l · · · · · · · · · · · · · · · · · ·	- 114

8)	Whie	h of the following is correct appl	lication of	data mining?
20/	a.)	Market Analysis and Management	Jr.)	Corporate Analysis & Risk Management
	c.)	Fraud Detection	d.)	All of the above
9) 11	The f a.)	irst steps involved in the knowle Data Integration	dge discov b.)	ery are? Data Selection
2//	c.)	Data Transformation	(d.)	Data Cleaning
10)	ln wl	hich step of Knowledge Discover	ry, multiple	
	a.)	Data Cleaning	1.)	Data Integration
4/	c.)	Data Selection	d.)	Data Transformation
11)	Whie	ch of the following is not type of	learning?	
1	a.)	Unsupervised Learning	b.)	Supervised Learning
2/	(C.)	Semi-unsupervised Learning	d.)	Reinforcement Learning
12)	Fath	er of Machine Learning (ML)		
	a.)	Geoffrey Chaucer	b.)	Geoffrey Hill
5	Le.J	Geoffrey Everest Hinton	d.)	None of the above
13)		d Detection, Image Classification, hof the following	Diagnostic.	and Customer Retention are applications in
	a.)	Unsupervised Learning:	<b>b</b> .)	Supervised Learning: Classification
Y/	c.)	Regression Unsupervised Learning: Clustering	d.)	Reinforcement Learning
14)			stems, and	Customer Segmentation are applications in
No	a.)	Supervised Learning:	<b>(b</b> .)	Unsupervised Learning: Clustering
Te	c.)	Classification Unsupervised Learning: Regression	d.)	Reinforcement Learning
15)	App	lications of NN (Neural Network)		
	a.)	Risk management	b.)	Data validation
2	c.)	Sales forecasting	-d.)	All of the above
/				
/		For Dep	oartmental	use only
	Ma	ax. Marks: 15	Marks C	Obtained: 13

Name of Evaluator: Abhay. N. Tripathi

Cours	e: BCA		nan ouur			
		ADD-ON COU Course Name: Int		DS AI, ML	Time: 30 Min Date: 26   2 2	022
Roll N	io:	Name: Tar	wi singe		Year/Sem: fl/III	Mr.
			J		gilator's Sign:	10.
No	te: All	questions are compulsory. Each que	estion will can	rry <b>'1'</b> mark an	d there is no 'Negativ	e Marking
1)	Wh	nat is the full form of "AI"?				
-	a.	Artificially Intelligent	б.	Artificial In	telligence	
/	c.	Artificially Intelligence	d.	Advanced In	ntelligence	
2)	WI	nat is Artificial Intelligence?				
-	a	A field that aims to make humansmore intelligent	b.	A field that	aims to improve the	e security
1	×	A field that aims to developintelligent machines	d.	A field that	aims to mine the da	ita
3)	Wł	to is the inventor of Artificial Inter-	elligence?			
-	a	Geoffrey Hinton	b.	Andrew Ng		
	×	John McCarthy	d	Jürgen Schn	nidhuber .	
4)	Wł	nich of the following is the branch	h of Artificia	al Intelligence	?	
	a	Machine Learning	b	Cyber forens	ics	
-/	с	Full-Stack Developer	d	Network Des	ign	
5)	WI	nich of the following is a compon	ent of Artifi	cial Intelligen	ice?	- 1881 -
	a	Learning	Vo	Training		
/	с	Designing	d	Puzzling		
6)	Wha a	t is true about data mining? Data Mining is defined as the procedure of extracting	b		also involves other Cleaning, Data Inte	
	/	information from huge sets of data		Data Transfo	rmation	
	c	Data mining is the procedure of mining knowledge from data.	ď	All of the ab	ove	
7)	Data	Mining System Classification co	onsists of?			
	a	Database Technology	b	Machine Lea	1 11 1	
	S	Information Science	d	All of the ab	ove still (1 ?)	5. f. fl +

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· 8)	Whic	h of the following is correct app	lication of	data mining?
7	a.)	Market Analysis and	b.)	Corporate Analysis & Risk Management
11	c.)	Management Fraud Detection	Ч <u>г.</u> )	All of the above
9)		irst steps involved in the knowle		very are?
L	a.)	Data Integration	b.)	Data Selection
1/	c.)	Data Transformation	<u>_₹.)</u>	Data Cleaning
10)	ln wl	nich step of Knowledge Discover	ry, multiple	e data sources are combined?
	a.)	Data Cleaning	-tr.)	Data Integration
7	c.)	Data Selection	d.)	Data Transformation
11)	Whic	ch of the following is not type of	learning?	
•	a.)	Unsupervised Learning	b.)	Supervised Learning
FX	<b>(</b> .)	Semi-unsupervised Learning	d.)	Reinforcement Learning
12)	Fathe	er of Machine Learning (ML)		
5	a.)	Geoffrey Chaucer	b.)	Geoffrey Hill
1/	<b>.</b> ()	Geoffrey Everest Hinton	d.)	None of the above
13)	Frauc which	Detection, Image Classification, not the following	Diagnostic.	, and Customer Retention are applications in
NO-	a.)	Unsupervised Learning: Regression	Ur.)	Supervised Learning: Classification
	<i>.</i> (.)	Unsupervised Learning: Clustering	d.)	Reinforcement Learning
14)			stems, and	Customer Segmentation are applications in
2/	a.)	Supervised Learning: Classification	b.)	Unsupervised Learning: Clustering
· · · ·	62	Unsupervised Learning:	d.)	Reinforcement Learning
15)	Appli	Regression cations of NN (Neural Network)	1. S. 1	
Δ_	a.)	Risk management	b.)	Data validation
1	c.)	Sales forecasting	AD-	All of the above
. /	35 - E.L.		and the second second	

- For Departmental use only -

Max. Marks: 15

Marks Obtained: 12

Name of Evaluator: Abhay. N. Tribathi

Sign.





Course: BCA

ADD-ON COURSE QUIZ Course Name: Introduction to DS AI, ML Time: 30 Min Date: 26(12)2022 Year/Sem: II/III ilator's Sign:

Roll No:

Name: Shubham Mixha

Invigilator's Sign:_____

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

$\lambda (2 , 1)$	W	hat is the full form of "AI"?		
40	va.	Artificially Intelligent	b.	Artificial Intelligence
	c.	Artificially Intelligence	d.	Advanced Intelligence
2)	W	'hat is Artificial Intelligence?		
Y	a	A field that aims to make humansmore intelligent	b.	A field that aims to improve the security
	V	A field that aims to developintelligent machines	d.	A field that aims to mine the data
3)	W	ho is the inventor of Artificial Inte	lligence?	
2	a	Geoffrey Hinton	b.	Andrew Ng
11	c	John McCarthy	d	Jürgen Schmidhuber
4)	W	hich of the following is the branch	of Artifici	al Intelligence?
	/a	Machine Learning	b	Cyber forensics
1	с	Full-Stack Developer	d	Network Design
5)	W	hich of the following is a compone	nt of Artif	icial Intelligence?
	a	Learning	b	Training
2	c	Designing	d	Puzzling
6)	Wh a	at is true about data mining? Data Mining is defined as the procedure of extracting informationfrom huge sets of data	b	Data mining also involves other processes suchas Data Cleaning, Data Integration, Data Transformation
7)	c Data	Data mining is the procedure ofmining knowledge from data. a Mining System Classification cor	d sists of?	All of the above
	a	Database Technology	5	Machine Learning
0	c	Information Science	d	All of the above
/		/		

	8)	Whic	ch of the following is correct appl	ication of	data mining?
1		a.)	Market Analysis and	b.)	Corporate Analysis & Risk Management
7		c.)	Management	<b>(</b> .)	All of the above
	9)	The a.)	first steps involved in the knowled Data Integration	dge discov b.)	very are? Data Selection
7	and and a second second	c.)	Data Transformation	<b>_</b> d.)	Data Cleaning
1	10)	ln w	hich step of Knowledge Discover	y, multipl	e data sources are combined?
4		a.)	Data Cleaning	(. تل	Data Integration
2		c.)	Data Selection	d.)	Data Transformation
	11)	Whi	ch of the following is not type of l	learning?	
		a.)	Unsupervised Learning	b.)	Supervised Learning
7		×.)	Semi-unsupervised Learning	d.)	Reinforcement Learning
/	12)	Fath	er of Machine Learning (ML)		
ð		a.)	Geoffrey Chaucer	b.)	Geoffrey Hill
7	/	(e.)	Geoffrey Everest Hinton	d.)	None of the above
1	13)	Frau	d Detection, Image Classification, I hof the following	Diagnostic	, and Customer Retention are applications in
5		a.)	Unsupervised Learning: Regression	<b>V</b> 6.)	Supervised Learning: Classification
1.7		c.)	Unsupervised Learning: Clustering	d.)	Reinforcement Learning
4	14)	Targ whic		stems, and	Customer Segmentation are applications in
1	/	a.)	Supervised Learning: Classification	b.)	Unsupervised Learning: Clustering
/		(بو	Unsupervised Learning: Regression	d.)	Reinforcement Learning
	15)		lications of NN (Neural Network)		
5	-	a.)	Risk management	b.)	Data validation
1	/	c.)	Sales forecasting	Jest .	All of the above
/			가 있는 것은 것 같은 것 않는 것이다. 같은 것 같은 것도 같은 것 같은 것 같은 것 같은 것		
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		Ma	ax. Marks: 15	Marks O	Obtained: 14
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	A		. N. Tribathi	Sign,	

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Cours	se: BCA	ADD-ON C	COURSE QUIZ		Time: 30 Min Date: 2 6 / 12   2022
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					igilator's Sign: 572
No	te: All	questions are compulsory. Each	question will ca	urry '1' mark an	d there is no 'Negative Marking
1)	Wh	nat is the full form of "AI"?			
	a.	Artificially Intelligent	U5.	Artificial In	telligence
	c.	Artificially Intelligence	d.	Advanced I	ntelligence
2)	WI	nat is Artificial Intelligence?			
/	a	A field that aims to make humansmore intelligent	b.	A field that	aims to improve the security
3)	√c W	A field that aims to developintelligent machines ho is the inventor of Artificial	d.	A field that	aims to mine the data
-,	<u> </u>	Geoffrey Hinton	b.	Andrew Ng	
/		John McCarthy	d	Jürgen Schi	
4)	W	hich of the following is the br			
-,	//	문화 가지 아파 영화가 전화 입니다.		Cyber forens	
/	a	Machine Learning	b		
_	c	Full-Stack Developer	d	Network De	5. 영상, 문의 가능 · · · ·
5)	W	hich of the following is a com			nce?
(	A	Learning	b	Training	
[	с	Designing	d	Puzzling	
6)	.Wh a	at is true about data mining? Data Mining is defined as the procedure of extracting informationfrom huge sets	b		also involves other processes Cleaning, Data Integration, ormation
	K	data Data mining is the procedur ofmining knowledge from data.		All of the at	pove
in the second	Da	ta Mining System Classification	on consists of?		
7)	34	Database Technology	b	Machine Le	

Y

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8	8)	Which of the following is correct application of data mining?					
A		a.)	Market Analysis and Management	b.)	Corporate Analysis & Risk Management		
//		c.)	Fraud Detection	A.)	All of the above		
9	))	The fi a.)	rst steps involved in the knowled Data Integration	ge discov b.)	ery are? Data Selection		
1	/	c.)	Data Transformation	-d.)	Data Cleaning		
1	10)	ln wh	ich step of Knowledge Discovery	, multiple			
		a.)	Data Cleaning	Jr.J	Data Integration		
1	/	c.)	Data Selection	d.)	Data Transformation		
1	11)	Whie	h of the following is not type of le	earning?			
×		a.)	Unsupervised Learning	b.)	Supervised Learning		
Y	~	c.)	Semi-unsupervised Learning	d.)	Reinforcement Learning		
]	12)	Fathe	r of Machine Learning (ML)				
		a.)	Geoffrey Chaucer	b.)	Geoffrey Hill		
2	~	e.)	Geoffrey Everest Hinton	d.)	None of the above		
1	13)		Detection, Image Classification, D of the following	Diagnostic.	and Customer Retention are applications in		
1	/	a.)	Unsupervised Learning:	<b>b</b> .)	Supervised Learning: Classification		
1		<b>c.</b> )	Unsupervised Learning: Clustering	<b>d.</b> )	Reinforcement Learning		
1	14)		ted marketing, Recommended Syst of the following	ems, and	Customer Segmentation are applications in		
5		a.)	Supervised Learning: Classification	b.)	Unsupervised Learning: Clustering		
/	~	<b>.</b> (.)	Unsupervised Learning: Regression	d.)	Reinforcement Learning		
1	15)	Applic a.)	cations of NN (Neural Network) Risk management	b.)	Data validation		
5		a.)	Sales forecasting		All of the above		
/	/	<i>x.</i> )	Sales lorecasting	(H)	All of the above		
/			김 김 영화가 가장을 하는 것이 같다.		1 tall		
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		Max	. Marks: 15	Marks O	Obtained: 13		
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Course: BCA

ADD-ON COURSE QUIZ Course Name: Introduction to DS AI, ML

Time: 30 Min L Date: 26))2)2022 Year/Sem: II/III Invigilator's Sign:

Roll No:

Name: Shivam dubey

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1)	W	hat is the full form of "AI"?		
L.	a.	Artificially Intelligent	<b>b</b> .	Artificial Intelligence
11	c.	Artificially Intelligence	d.	Advanced Intelligence
2)	W	hat is Artificial Intelligence?		
1	a	A field that aims to make humansmore intelligent	b.	A field that aims to improve the security
11	S.	A field that aims to developintelligent machines	d.	A field that aims to mine the data
3)	W	ho is the inventor of Artificial Intell	igence?	
6	a	Geoffrey Hinton	b.	Andrew Ng
71	S	John McCarthy	d	Jürgen Schmidhuber
4)	W	hich of the following is the branch o	f Artifici	al Intelligence?
×0	a	Machine Learning	6	Cyber forensics
2/	c	Full-Stack Developer	d	Network Design
5)	WI	hich of the following is a componen	t of Artif	icial Intelligence?
2/1	×	Learning	b	Training
/	c	Designing	d	Puzzling
6)	Wha	at is true about data mining?		Data mining also involves other messages
N-	a	Data Mining is defined as the procedure of extracting information from huge sets of data	b	Data mining also involves other processes suchas Data Cleaning, Data Integration, Data Transformation
11	c	Data mining is the procedure ofmining knowledge from data.	J.	All of the above
7)	Data	Mining System Classification cons	ists of?	
/	a	Database Technology	b	Machine Learning
2	-c	Information Science	i	All of the above
1				J MI

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	a.)	Market Analysis and	b.)	Corporate Analysis & Risk Management
1	c.)	Management Fraud Detection	<b>(</b> 1.)	All of the above
9)	The . <b>a.)</b>	first steps involved in the knowle Data Integration	dge discov b.)	Data Selection
/	c.)	Data Transformation	vd.)	Data Cleaning
10)	ln w <b>a.)</b>	hich step of Knowledge Discover Data Cleaning	ry, multiple (.)	e data sources are combined? Data Integration
/	c.)	Data Selection	d.)	Data Transformation
11)		ich of the following is not type of	learning?	
	a.)	Unsupervised Learning	b.)	Supervised Learning
/ .	(Č.)	Semi-unsupervised Learning	d.)	Reinforcement Learning
12	) Fath	ner of Machine Learning (ML)		
	a.)	Geoffrey Chaucer	b.)	Geoffrey Hill
//	×c.)	Geoffrey Everest Hinton	d.)	None of the above
13		d Detection, Image Classification, chof the following	Diagnostic	, and Customer Retention are applications in
K.	a.)	Unsupervised Learning: Regression	<b>b</b> .)	Supervised Learning: Classification
/	ˈc.)	Unsupervised Learning: Clustering	d.)	Reinforcement Learning
14	) Targ whic	geted marketing, Recommended Sy chof the following	stems, and	Customer Segmentation are applications in
8	a.)	Supervised Learning: Classification	b.)	Unsupervised Learning: Clustering
/	<b>(</b> .)	Unsupervised Learning: Regression	<b>d.</b> )	Reinforcement Learning
15		lications of NN (Neural Network) Risk management	b.)	Data validation
	a.)		d)~	All of the above
/	e.)	Sales forecasting	U.J.	
/				

Max. Marks: 15

Marks Obtained: \4-

Name of Evaluator: Abhay, N. Tripath(

Roll No:       Name:       Manual And Pal       Year/Sem:       I/III         Invigitator's Sign:	Note:       Nume:       Nume: <th< th=""><th>Course: BC.</th><th>A ADD-ON CO Course Name: It</th><th colspan="3">ADD-ON COURSE QUIZ Course Name: Introduction to DS AI, ML</th><th>22</th></th<>	Course: BC.	A ADD-ON CO Course Name: It	ADD-ON COURSE QUIZ Course Name: Introduction to DS AI, ML			22
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<ul> <li>a Learning</li> <li>b Training</li> <li>c Designing</li> <li>d Puzzling</li> <li>6) What is true about data mining? Data Mining is defined as the</li> <li>a procedure of extracting informationfrom huge sets of data</li> <li>c Data mining is the procedure ofmining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> </ul>	<ul> <li>a Learning</li> <li>b Training</li> <li>c Designing</li> <li>d Puzzling</li> <li>6) What is true about data mining? Data Mining is defined as the a procedure of extracting informationfrom huge sets of data</li> <li>c Data mining is the procedure ofmining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> <li>a Database Technology</li> <li>b Training</li> <li>d Puzzling</li> <li>Data mining is the procedure of Mining System Classification consists of?</li> <li>b Machine Learning</li> </ul>	c	Full-Stack Developer	d	Network Des	sign	
<ul> <li>a Learning</li> <li>b Training</li> <li>c Designing</li> <li>d Puzzling</li> <li>6) What is true about data mining? Data Mining is defined as the</li> <li>a procedure of extracting informationfrom huge sets of data</li> <li>c Data mining is the procedure ofmining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> </ul>	<ul> <li>a Learning</li> <li>b Training</li> <li>c Designing</li> <li>d Puzzling</li> <li>6) What is true about data mining? Data Mining is defined as the a procedure of extracting informationfrom huge sets of data</li> <li>c Data mining is the procedure ofmining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> <li>a Database Technology</li> <li>b Training</li> <li>d Puzzling</li> <li>Data mining is the procedure of Mining System Classification consists of?</li> <li>b Machine Learning</li> </ul>	5) WI	nich of the following is a component	nent of Artif	icial Intelliger	nce?	
<ul> <li>c Designing</li> <li>d Puzzling</li> <li>6) What is true about data mining? Data Mining is defined as the a procedure of extracting informationfrom huge sets of data</li> <li>c Data mining is the procedure ofmining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> <li>d Puzzling</li> <li>Data mining also involves other processe suchas Data Cleaning, Data Integration, Data Transformation</li> <li>d All of the above</li> </ul>	<ul> <li>c Designing</li> <li>d Puzzling</li> <li>6) What is true about data mining? Data Mining is defined as the a procedure of extracting informationfrom huge sets of data</li> <li>c Data mining is the procedure ofmining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> <li>a Database Technology</li> <li>b Puzzling</li> <li>Data mining is the process</li> <li>b Data mining is the process</li> <li>b Data mining is the procedure of mining knowledge from</li> <li>b Machine Learning</li> </ul>	a					
<ul> <li>6) What is true about data mining? Data Mining is defined as the a procedure of extracting informationfrom huge sets of data</li> <li>c Data mining is the procedure ofmining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> </ul>	<ul> <li>6) What is true about data mining? Data Mining is defined as the a procedure of extracting informationfrom huge sets of data</li> <li>c Data mining is the procedure of mining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> <li>a Database Technology</li> <li>b Data mining also involves other process suchas Data Cleaning, Data Integration, Data Transformation</li> <li>All of the above</li> <li>Machine Learning</li> </ul>	c	Designing	d	Puzzling		
<ul> <li>information from huge sets of data</li> <li>c Data mining is the procedure d All of the above of mining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> </ul>	<ul> <li>information from huge sets of data</li> <li>c Data mining is the procedure of mining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> <li>a Database Technology</li> <li>b Machine Learning</li> </ul>		Data Mining is defined as the	Ь			
<ul> <li>c Data mining is the procedure d All of the above of mining knowledge from data.</li> <li>7) Data Mining System Classification consists of?</li> </ul>	<ul> <li>c Data mining is the procedure d All of the above of mining knowledge from data.</li> <li>7) Data Mining System Classification consists of?         <ul> <li>a Database Technology</li> <li>b Machine Learning</li> </ul> </li> </ul>	1/ *	information from huge sets of	(a) the start	Data Transfe	ormation	
	a Database Technology b Machine Learning	c	Data mining is the procedure of mining knowledge from	A	All of the ab	ove	
a Database Technology b Machine Learning		7) Data	Mining System Classification c	onsists of?		in the second second	
water water water of a contract of the water of the state of the	Information Science d All of the above	a	Database Technology	b	Machine Lea	urning	etti Asilyasia

8)	·Whic	ch of the following is correct app	olication of	'data mining?
14	a.)	Market Analysis and	b.)	Corporate Analysis & Risk Management
1/	c.)	Management Fraud Detection	Let.)	All of the above
9) ()	The f	irst steps involved in the knowle Data Integration	edge discov t.)	very are? Data Selection
QU	. c.)	Data Transformation	d.)	Data Cleaning
10)	ln wl	tich step of Knowledge Discove	ry, multipl	e data sources are combined?
1	a.)	Data Cleaning	<b>(</b> 15.)	Data Integration
~ 11	· c.)	Data Selection	d.)	Data Transformation
11)	Whic	ch of the following is not type of	learning?	
./	a.)	Unsupervised Learning	b.)	Supervised Learning
Y11	Vc.)	Semi-unsupervised Learning	d.)	Reinforcement Learning
12)	Fathe	er of Machine Learning (ML)		
$\sim$ /	a.)	Geoffrey Chaucer	b.)	Geoffrey Hill
1/	Je.)	Geoffrey Everest Hinton	d.)	None of the above
13)		Detection, Image Classification,	Diagnostic	, and Customer Retention are applications in
Y	a.)	Unsupervised Learning: Regression	<b>/</b> b.)	Supervised Learning: Classification
//	c.)	Unsupervised Learning: Clustering	d.)	Reinforcement Learning
14)		ted marketing, Recommended Sy nof the following	stems, and	Customer Segmentation are applications in
201.	∕a.)	Supervised Learning: Classification	b.)	Unsupervised Learning: Clustering
1	c.)	Unsupervised Learning: Regression	d.)	Reinforcement Learning
15)	Appli	cations of NN (Neural Network)		
	a.)	Risk management	b.)	Data validation
411	<b>c.</b> )	Sales forecasting	(d.)	All of the above
		1989년 1888년 1977년 1989년 2017년 - 1989년 1		ANA .
		For Dep	artmental	use only
	Max	. Marks: 15	Marks O	btained: 11

Name of Evaluator: Abhay. H. Tribathi

		) Mangalmay Insti Gre	tute of Mai ater Nolda (U	nagement .P.)	Technology
Cour	se: BC	ADD-ON	COURSE QUIZ	Z D DS AI, ML	Time: 30 Min Date: 2611212022
Roll I	No:	Name:	Jony	Inv	Year/Sem: 11/111 igilator's Sign:
No	te: All	questions are compulsory. Eac	h question will ca	urry <b>'1'</b> mark an	d there is no 'Negative Marking'
1)	WI	hat is the full form of "AI"?			
	a.	Artificially Intelligent	<b>.</b>	Artificial In	telligence
	c.	Artificially Intelligence	d.	Advanced I	ntelligence
2)	W	hat is Artificial Intelligence?			
	a	A field that aims to make humansmore intelligent	Jr.	A field that	aims to improve the security $\propto 0$
	c	A field that aims to developintelligent machines	d.	A field that	aims to mine the data
3)	W	ho is the inventor of Artificia	al Intelligence?		
	a	Geoffrey Hinton	b.	Andrew Ng	171
	4	John McCarthy	d	Jürgen Schr	nidhuber
4)	W	hich of the following is the b	ranch of Artifici	al Intelligence	?
	1	Machine Learning	b	Cyber forens	ics
	c	Full-Stack Developer	d d	Network Des	sign
5)	W	hich of the following is a con	nponent of Artif	icial Intelliger	nce?
	a /	Learning	b	Training	, VII
	c	Designing	d	Puzzling	
6)	Wha	at is true about data mining? Data Mining is defined as t	he	Data mining	also involves other processes
	a	procedure of extracting information from huge sets	b		Cleaning, Data Integration,
	c	data Data mining is the procedu ofmining knowledge from data.	re 🗹	All of the ab	ove
7)	Data	Mining System Classificati	on consists of?	/	
	a	Database Technology	J	Machine Lea	urning
	c	Information Science	d d	All of the ab	ove

	8)	Whic	h of the following is correct appl	ication of	data mining?
1		a.)	Market Analysis and	b.)	Corporate Analysis & Risk Management
1/	/	c.)	Management Fraud Detection	A.)	All of the above
	9) /	The fi a.)	rst steps involved in the knowled Data Integration	dge discov b.)	ery are? Data Selection
Y		c.)	Data Transformation	Ú.)	Data Cleaning
	10)	ln wh	ich step of Knowledge Discover	y, multiple	e data sources are combined?
	1	a.)	Data Cleaning	<u></u> b.)	Data Integration
Y		c.)	Data Selection	d.)	Data Transformation
11	11)	Whic	h of the following is not type of	learning?	
	1	a.)	Unsupervised Learning	b.)	Supervised Learning
YI	~ ·	<b>(</b> .)	Semi-unsupervised Learning	d.)	Reinforcement Learning
11	12)	- Fathe	r of Machine Learning (ML)		
5/11	1	a.)	Geoffrey Chaucer	b.)	Geoffrey Hill
		.)	Geoffrey Everest Hinton	d.)	None of the above
	13)		Detection, Image Classification, I of the following	Diagnostic.	and Customer Retention are applications in
Y	/	a.)	Unsupervised Learning: Regression	U.)	Supervised Learning: Classification
17		<b>c</b> .)	Unsupervised Learning: Clustering	d.)	Reinforcement Learning
	14)			stems, and	Customer Segmentation are applications in
22/	~	a.)	Supervised Learning: Classification	b.)	Unsupervised Learning: Clustering
		c.)	Unsupervised Learning: Regression	d.)	Reinforcement Learning
	15)	Applie	cations of NN (Neural Network)		
Y		a.)	Risk management	b.)	Data validation
1		c.)	Sales forecasting	d.)	All of the above
					MAN
			For Depa	artmental	use only
		Max	. Marks: 15	Marks O	btained: 13

Name of Evaluator: Abhay N. Tripathi

loui	rse: BC	ADD-ON	COURSE QUIZ c: Introduction to		1e: 30 Min e: 26112 12022
oll	No:		Agivind		r/Sem: II/III pr's Sign:
N	ote: Al	l questions are compulsory. Eacl	auestion will ca	8	
	0101711	r questions are compulsory. Each	, daoguoti, and	,	
1)	W	hat is the full form of "AI"?			1
	a.	Artificially Intelligent	br	Artificial Intellige	
	c.	Artificially Intelligence	d.	Advanced Intellig	gence
2)	W	hat is Artificial Intelligence?			
	a	A field that aims to make humansmore intelligent	b.	A field that aims	to improve the security $\checkmark$
	<u> </u>	<ul> <li>A field that aims to developintelligent machines</li> </ul>	d.	A field that aims	to mine the data
3)	W	ho is the inventor of Artificial	Intelligence?		
	а	Geoffrey Hinton	b.	Andrew Ng	1
	1	John McCarthy	d	Jürgen Schmidhu	ber
	۶			-	
4)	W	hich of the following is the br	anch of Artifici		× ·
	×	Machine Learning	b	Cyber forensics	/ H_
	с	Full-Stack Developer	d	Network Design	
5)	W	hich of the following is a com	ponent of Artif	icial Intelligence?	
	A	Learning	b	Training	1
	с	Designing	d	Puzzling	
6)	Wha	at is true about data mining?	1		
	a	Data Mining is defined as the procedure of extracting information from huge sets of	b	*	nvolves other processes ing, Data Integration, on
	с	data Data mining is the procedur	1	All of the above	1-1-
	n.	ofmining knowledge from data.	n aan-: t 0∨		
7)		Mining System Classificatio	n consists of?	Maahing I	
4. 19	a	Database Technology	_10	Machine Learning	till North
	с	Information Science	d	All of the above	171

8)	Whiel	h of the following is correct appli	cation of	data mining?
Y11 1	a.)	Market Analysis and	b.)	Corporate Analysis & Risk Management
	c.)	Management Fraud Detection	Nr.)	All of the above
9)	The fi	irst steps involved in the knowled	ge discov	very arc?
10 4	as	Data Integration	b.)	Data Selection
2011	c.)	Data Transformation	d.)	Data Cleaning
10)	In wh	ich step of Knowledge Discovery	, multiple	e data sources are combined?
. /	a.)	Data Cleaning	_b.)	Data Integration
YIT	e.)	Data Selection	d.)	Data Transformation
11)	Whie	h of the following is not type of le	earning?	
1	a.)	Unsupervised Learning	b.)	Supervised Learning
YI	S.	Semi-unsupervised Learning	d.)	Reinforcement Learning
12)	Fathe	r of Machine Learning (ML)		
10//	a.)	Geoffrey Chaucer	_b.)	Geoffrey Hill
27/	c.)	Geoffrey Everest Hinton	d.)	None of the above
13)		Detection, Image Classification, D	iagnostic	, and Customer Retention are applications in
71/	a.)	Unsupervised Learning: Regression	(.كل	Supervised Learning: Classification
	c.)	Unsupervised Learning: Clustering	d.)	Reinforcement Learning
14)			ems, and	Customer Segmentation are applications in
×11	a.)	Supervised Learning: Classification	b.)	Unsupervised Learning: Clustering
<i></i> ,	(بى	Unsupervised Learning: Regression	d.)	Reinforcement Learning
15)	Appli	cations of NN (Neural Network)		
	a.)	Risk management	b.)	Data validation
11/	c.)	Sales forecasting	d	All of the above
$\checkmark$			$\smile$	
		For Done	etmontal	WANN WARN

--- For Departmental use only ----

Max. Marks: 15

Marks Obtained: 13

Name of Evaluator: Abhay. N. Taipathi

	34
100	100
	ALL D

Course: BCA

ADD-ON COURSE QUIZ Course Name: Introduction to DS AI, ML

Name: Abhishek Raj

Date: 26/12/2022 Year/Sem: 11/111

**Roll No:** 

Invigilator's Sign:_____

Time: 30 Min

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1)	WI	nat is the full form of "AI"?		
1	a.	Artificially Intelligent	br	Artificial Intelligence
11	c.	Artificially Intelligence	d.	Advanced Intelligence
2)	WI	nat is Artificial Intelligence?		
D.	a	A field that aims to make humansmore intelligent	b.	A field that aims to improve the security
1/	La	A field that aims to developintelligent machines	d.	A field that aims to mine the data
3)	WI	no is the inventor of Artificial Intellig	gence?	
12	~~	Geoffrey Hinton	b.	Andrew Ng
No/	e	John McCarthy	d	Jürgen Schmidhuber
4)	WI	nich of the following is the branch of	Artifici	al Intelligence?
1	La	Machine Learning	b	Cyber forensics
11	с	Full-Stack Developer	d	Network Design
5)	WI	tich of the following is a component	of Artif	icial Intelligence?
	1.2/	Learning	b	Training
11	с	Designing	d	Puzzling
6)	Wha a	t is true about data mining? Data Mining is defined as the procedure of extracting informationfrom huge sets of data	b	Data mining also involves other processes suchas Data Cleaning, Data Integration, Data Transformation
1	c	Data mining is the procedure ofmining knowledge from data.	1	All of the above
7)	Data	Mining System Classification consi	sts of?	
N	a	Database Technology	∖ b´	Machine Learning
7	c	Information Science	La/	All of the above

8)	Whie	Which of the following is correct application of data mining?			
*	a.)	Market Analysis and Management	b.)	Corporate Analysis & Risk Management	
4	c.)	Fraud Detection	(A.)	All of the above	
9)	The first steps involved in the knowledge discovery are?				
	a.)	Data Integration	b.)	Data Selection	
1	c.)	Data Transformation	<u>↓</u> .)	Data Cleaning	
10)	In which step of Knowledge Discovery, multiple data sources are combined?				
-	a.)	Data Cleaning	しか.)	Data Integration	
2	c.)	Data Selection	d.)	Data Transformation	
11)	Which of the following is not type of learning?				
A	a.)	Unsupervised Learning	b.)	Supervised Learning	
7/1	·(.)	Semi-unsupervised Learning	d.)	Reinforcement Learning	
12)	Father of Machine Learning (ML)				
1	a.)	Geoffrey Chaucer	b.)	Geoffrey Hill	
11,	.)	Geoffrey Everest Hinton	d.)	None of the above	
13)	Fraud Detection, Image Classification, Diagnostic, and Customer Retention are applications in which of the following				
•	a.)	Unsupervised Learning: Regression	15.5	Supervised Learning: Classification	
11	c.)	Unsupervised Learning: Clustering	d.)	Reinforcement Learning	
14)	Targeted marketing, Recommended Systems, and Customer Segmentation are applications in which of the following				
2	a.)	Supervised Learning: Classification	b.)	Unsupervised Learning: Clustering	
L	c.)	Unsupervised Learning: Regression	d.)	Reinforcement Learning	
15)	Appli	cations of NN (Neural Network)			
Y	a.)	Risk management	b.)	Data validation	
1	c.)	Sales forecasting	"ď.)	All of the above	
For Demonstration in the Harry					
For Departmental use only					

Max. Marks: 15

Marks Obtained: 14-

Name of Evaluator: