MANGALMAY
INSTITUTE OF MANAGEMENT TECHNOLOGY

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

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 andIssuesinMachineLearning,TypesofMachineLearning,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.MITpress.
- 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,―MachineLearning‖,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	12th September 2022 to 06th December 2022
Venue	BCA Classroom
Organized by	Computer Application Department
Resource Person	Mr. Abhay N Triapthi, Associate Professor, MIMT
Beneficiary	BCA 3rd 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. Day 3: 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. Day10:At this point, a resource person arrives to explain the differences between databases and data warehouses. 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:

MANGALMAY
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
Mangalmay Institute of
Management & Technology

CONVENER
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Course: BCA

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

Time: 30 Min
Date: 26|12|2022

Roll No:

Name: Vinut

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"?

   a. Artificially Intelligent
   b. Artificial Intelligence
   c. Artificially Intelligence
   d. Advanced Intelligence

2) What is Artificial Intelligence?

   a. A field that aims to make humansmore intelligent
   b. A field that aims to improve the security
   c. A field that aims to developintelligent machines
   d. A field that aims to mine the data

3) Who is the inventor of Artificial Intelligence?

   a. Geoffrey Hinton
   b. Andrew Ng
   c. John McCarthy
   d. Jürgen Schmidhuber

4) Which of the following is the branch of Artificial Intelligence?

   a. Machine Learning
   b. Cyber forensics
   c. Full-Stack Developer
   d. Network Design

5) Which of the following is a component of Artificial Intelligence?

   a. Learning
   b. Training
   c. Designing
   d. Puzzling

6) What is true about data mining?

   a. 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
   c. Data mining is the procedure ofmining knowledge from data.
   d. All of the above

7) Data Mining System Classification consists of?

   a. Database Technology
   b. Machine Learning
   c. Information Science
   d. All of the above

8) Which of the following is correct application of data mining?

    a.) Market Analysis and Management   b.) Corporate Analysis & Risk Management

    c.) Fraud Detection   d.) All of the above

9) The first steps involved in the knowledge discovery are?

    a.) Data Integration   b.) Data Selection

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10) In which step of Knowledge Discovery, multiple data sources are combined?

    a.) Data Cleaning   b.) Data Integration

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11) Which of the following is not type of learning?

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    a.) Geoffrey Chaucer   b.) Geoffrey Hill

    c.) Geoffrey Everest Hinton   d.) None of the above

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    a.) Supervised Learning: Classification   b.) Unsupervised Learning: Clustering

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15) Applications of NN (Neural Network)

    a.) Risk management   b.) Data validation

    c.) Sales forecasting   d.) All of the above

Course: BCA

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Course Name: Introduction to DS AI, ML

Time: 30 Min
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Max. Marks: 15   Marks Obtained: 13

Name of Evaluator: Sign.

Abhay. N. Tripathi

Mangalmay Institute of Management Technology
Greater Noida (U.P.)

Course: BCA

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

Time: 30 Min
Date: 26|12|2022

Roll No:　　　　　Name: Tanvi Singh

Year/Sem: II/III

Invigilator's Sign: _____

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Course: BCA

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

Time: 30 Min
Date: 26|12|2022

Roll No:

Name: Shubham Mishra

Year/Sem: II/III

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Course: BCA   **ADD-ON COURSE QUIZ**   Time: 30 Min

Course Name: Introduction to DS AI, ML   Date: 26|12|2022

Roll No: Name: Sudup   Year/Sem: II/III

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Course: BCA

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

Time: 30 Min
Date: 26)12)2022

Roll No:

Name: Shivam dubey

Year/Sem: II/III

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Course: BCA

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

Time: 30 Min
Date: 26/12/2022

Roll No:

Name: Manish Pal

Year/Sem: II/III

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14) Targeted marketing, Recommended Systems, and Customer Segmentation are applications in which of the following

   a.) Supervised Learning: Classification
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15) Applications of NN (Neural Network)

   a.) Risk management
   b.) Data validation
   c.) Sales forecasting
   d.) All of the above

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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"?
   a. Artificially Intelligent
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2) What is Artificial Intelligence?
   a. A field that aims to make humans more intelligent
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3) Who is the inventor of Artificial Intelligence?
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4) Which of the following is the branch of Artificial Intelligence?
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5) Which of the following is a component of Artificial Intelligence?
   a. Learning
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6) What is true about data mining?
   a. Data Mining is defined as the procedure of extracting information from huge sets of data
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7) Data Mining System Classification consists of?
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9) The first steps involved in the knowledge discovery are?
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Max. Marks: 15   Marks Obtained: 13

Name of Evaluator: Sign.

Abhay. N. Tripathi

Course: BCA   **ADD-ON COURSE QUIZ**   Time: 30 Min
          Course Name: Introduction to DS AI, ML   Date: 26/12/2022

Roll No: Name: Arvind   Year/Sem: II/III

Invigilator's Sign: _____

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Abhay. N. Tripathi

Mangalmay Institute of Management Technology
Greater Noida (U.P.)

Course: BCA

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

Time: 30 Min
Date: 26/12/2022

Roll No:

Name: Abhishek Raj

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