TECNIA INSTITUTE OF ADVANCED STUDIES

NAAC GRADE "A" INSTITUTE (CYCLE-2)
Approved by AICTE, Ministry of Education Govt. of India,
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INSTITUTIONAL AREA, MADHUBAN CHOWK, ROHINI, DELHI-110085

AI & ML CLUB, DEPARTMENT OF ICT	
Report on Mathematics Behind Artificial Intelligence	
Event	Expert Session
Type of Activity:	Technical Session (Expert Talk)
OBE Values	Analytical Skills
Mulya Pravah	Excellence
Global Impact-UNSDG No.	SDG 4 – Quality Education
Objectives	To explore mathematical concepts used in AI algorithms.
Course Mapping	BCA 101 – Discrete Mathematics; MCA 101 – Discrete Structure (Target Audience: BCA 1st, 2nd & 3rd Year, MCA 1st Year)
Course Outcome (CO)	CO2
BT Level	BTL-4 (Analyse)
Expected Outcomes	Understanding of mathematical foundations of AI.
In collaboration/association with	In-house Club – AI & ML Club, Department of ICT
Name & Designation details of Resource Person- Internal Expert (LinkedIn Profile Link)	Mr. Gaurav Singh Rawat, Assistant Professor, Department of ICT, Tecnia Institute of Advanced Studies (https://www.linkedin.com/in/gaurav-singh-rawat-a76142383/)
Name & Designation details of Resource Person- External Expert Trained counseling expert(LinkedIn Profile Link)/	NA
Duration (Date & Time)	19th September 2026, 11:00 AM onwards
Mode (Offline/Hybrid)	Offline
Venue	COE Lab 1, Tecnia Institute of Advanced Studies
No. of Internal Participants	36
No. of External Participants *[write NA if not applicable]*	NA
No. of Institutions Participated	1 (Tecnia Institute of Advanced Studies)
University Representation	NA
Awards/Recognition (if any) (Attach e-copy of Awards/Certificates)	Certificates provided to all participants

Innovation / Best Practice

The session connected classroom mathematics, including sets, logic, relations, graphs, probability and linear algebra, with the AI algorithms that use them, giving students across all three years of BCA an interdisciplinary view of mathematics and computing. Worked examples and visual demonstrations were used to show how mathematical ideas drive search, classification and learning in AI. The session can be repeated for every incoming batch and extended into a short certificate series.

Feedback:

Mode of feedback collection (form / oral / reflection / survey)	Oral feedback and survey – evidence maintained by the Event Coordinator
Key feedback highlights	Participants found the session insightful and well explained. Students appreciated how topics like logic, probability and matrices were linked to real AI examples, and said it helped them understand why mathematics is important for AI and Machine Learning.
Suggestions for improvement (if any)	NA

Concluding remarks (s):

The session on Mathematics Behind Artificial Intelligence, organised by the AI & ML Club, Department of ICT, helped BCA (1st, 2nd and 3rd year) and MCA students see how the discrete mathematics they study in class underpins modern AI algorithms. By linking topics such as logic, graphs, probability and matrices to practical AI examples, the session strengthened students' analytical thinking and motivated them to study mathematics with a clearer purpose. The event successfully met its objective of building awareness of the mathematical foundations of AI.

Media Coverage:

Social media link(s) (Mandatory)	
Print Media evidence (If any)	NA

TECNIA
INSTITUTE OF ADVANCED STUDIES

NAAC GRADE A

TECHNICAL CLUB
DEPARTMENT OF ICT
LEARN | BUILD | INNOVATE

Σ

EXPERT SESSION

MATHEMATICS BEHIND AI

The maths that makes machines learn

$A \wedge B$	$P(A\|B)$	$[M]$
Logic & Graphs	**Probability**	**Matrices**
How AI reasons and searches	How AI makes predictions	How models store knowledge

ORGANISED BY

DEPARTMENT OF INFORMATION COMMUNICATION & TECHNOLOGY (ICT)
& AI & ML CLUB

For BCA 1st, 2nd & 3rd Year · MCA Students

SCAN TO REGISTER

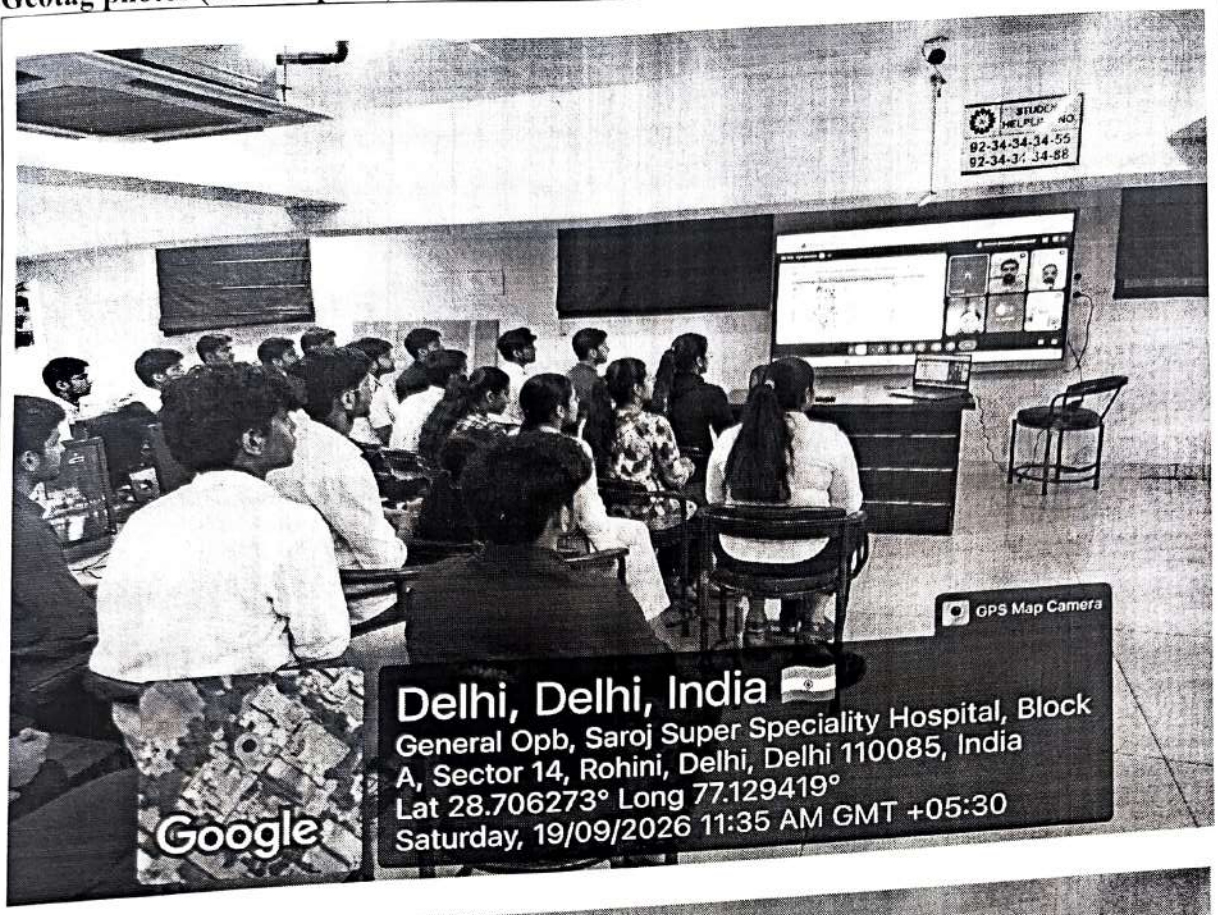
19th Sept, 2026 (Saturday)

11:00 AM Onwards

COE Lab 1, Tecnia Institute

+91-9212080415 admissiontias@tecnia.in www.tiastc.tecnia.in

Geotag photos (with Caption):





List of Participants (Attendance Sheet):

S. No.	Enrolment No.	Name of the Student	Prog & Year	sign
1	02617002025	Aarti	BCA – 3rd Sem	
2	04721302025	Atishay Jain	BCA – 3rd Sem	
3	09817002025	Dev Choudhary	BCA – 3rd Sem	
4	10121302025	Dhairya Srivastav	BCA – 3rd Sem	
5	08021302025	Divanshu Pundir	BCA – 3rd Sem	
6	06917002025	Hardik Nandwani	BCA – 3rd Sem	
7	00621302025	Haya Akhtar	BCA – 3rd Sem	
8	01221302025	Himanshu	BCA – 3rd Sem	
9	00517002025	Hiya Khurana	BCA – 3rd Sem	
10	00217002025	Janya Rajpal	BCA – 3rd Sem	
11	08117002025	Jyotika Manral	BCA – 3rd Sem	
12	06621302025	Krish Suneja	BCA – 3rd Sem	
13	11217002025	Lakshay Sharma	BCA – 3rd Sem	
14	03717002025	Mansimar Singh	BCA – 3rd Sem	
15	04717002025	Naman Singhoya	BCA – 3rd Sem	
16	04017002025	Nishtha Chauhan	BCA – 3rd Sem	
17	01321302025	Saboori Vij	BCA – 3rd Sem	
18	10921302025	Shipra Jana	BCA – 3rd Sem	
19	10621302025	Vansh Sharma	BCA – 3rd Sem	
20	50517002024	Aman Sondhi	BCA – 5th Sem	
21	09621302024	Daksh Yadav	BCA – 5th Sem	
22	04617002024	Dhruvmalhotra	BCA – 5th Sem	
23	35117002024	Divyesh Verma	BCA – 5th Sem	
24	10021302024	Eshaan Dhillon	BCA – 5th Sem	
25	05817002024	Gaurav Sharma	BCA – 5th Sem	
26	03921302024	Kartik Singh Jadaun	BCA – 5th Sem	
27	50521302024	Khushpreet Kaur	BCA – 5th Sem	
28	08917002024	Lakshay Bhardwaj	BCA – 5th Sem	
29	06321302024	Naman Puri	BCA – 5th Sem	
30	05521302024	Ritik	BCA – 5th Sem	
31	04317002024	Saisha Gambhir	BCA – 5th Sem	
32	35721302024	Sankalp Paliwal	BCA – 5th Sem	
33	00921302024	Shivam Sharma	BCA – 5th Sem	
34	35521302024	Shubham Singh	BCA – 5th Sem	
35	36017002024	Uday Chandra Jha	BCA – 5th Sem	
36	10017002024	Yuv Kumar	BCA – 5th Sem	

Event Coordinator/Club Incharge

Mr. Gaurav Singh Rawat

Dr. Ratandeep kaur
Domain Clubs Head

Dr. Susmita Bahuguna
Asso. Dean, DICT