



DEPARTMENT OF MATHEMATICS MORIGAON COLLEGE

Morigaon, Assam
NAAC Accredited "A" Grade Institute
Affiliated to Gauhati University

From:
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Memo No: MAT/2025/

Date: 21/10/2025

Notice

This is for general information that the Department of Mathematics and Department of Computer Applications in collaboration with IQAC, Morigaon College (Autonomous) is going to organize a one-day **National Seminar** on "**Emerging Trends in AI Research and Applications**" on 22nd October, 2025. On this occasion, I request all the students of Department of Mathematics to extend their active cooperation.

Venue: New Conference Hall, Morigaon College (A)
Time: 9 AM

With regards

Upashana Gogoi
Assistant Professor & Head
Department of Mathematics

HOD
Department of Mathematics
Morigaon College

Report on 1-day National Seminar
on
“Emerging Trends in AI Research and Applications”

Date of Seminar: 22nd October, 2025

Venue: New Conference Hall, Morigaon College (A)

Organized by: Department of Mathematics and Computer Applications in collaboration with IQAC, Morigaon College (A)

Keynote Speaker: Prof. Manoj Kumar Deka, Academic Head and HoD, Department of Information Technology, Assam Skill University

Invited Speakers:

1. Dr. Jyotismita Talukdar, Assistant Professor, Department of Computer Science and Engineering, Tezpur University
2. Dr. Rupam Kumar Sharma, Assistant Professor, Department of Computer Science and Engineering, Rajiv Gandhi University

Special Guests:

1. Prof. Tarini Kumar Dutta, Assam Don Bosco University, Guwahati
2. Prof. Pran Hari Talukdar, Retired Head, Department of Instrumentation and USIC, Gauhati University

No. Of Participants: With paper: 15
Without paper: 112
Total: 153

Brief overview of the event: A one-day National Seminar on “Emerging Trends in AI Research and Applications” was organised by the Department of Mathematics and the Department of Computer Applications, Morigaon College (Autonomous), in collaboration with the IQAC, on 22 October 2025 at the college premises. The seminar served as a platform for eminent academicians and researchers to deliberate on recent developments and innovations in the field of Artificial Intelligence (AI).

The programme commenced with the ceremonial lighting of the lamp by Dr. Dhananjay Kusre, Vice Principal, Morigaon College (Autonomous), along with other invited dignitaries. Renowned academician and mathematician Prof. Tarini Kumar Dutta, Assam Don Bosco


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Department of Mathematics
Morigaon College

University, Guwahati, inaugurated the seminar. In his inaugural address, he elaborated on the intrinsic relationship between mathematics and AI.

This was followed by an enriching talk by Prof. Pran Hari Talukdar, Retired Head, Department of Instrumentation and USIC, Gauhati University. His address focused on the evolution of AI over the years and provided valuable insights into its progressive development.

The keynote lecture was delivered by Prof. Manoj Kumar Deka, Academic Head and HoD, Department of Information Technology, Assam Skill University. Speaking on "AI in Academia: Enhancing Research, Innovation and Impact," he emphasized the ethical application of AI tools in academic research and highlighted their potential to enhance the quality and scope of scholarly work.

The first invited lecture was presented by Dr. Jyotismita Talukdar, Assistant Professor, Department of Computer Science and Engineering, Tezpur University, on the topic "Machine Learning to Deep Learning: Impact on Modern Healthcare and Medicine." She provided an in-depth analysis of how deep learning technologies have revolutionised the healthcare sector.

The second invited speaker, Dr. Rupam Kumar Sharma, Assistant Professor, Department of Computer Science and Engineering, Rajiv Gandhi University, spoke on "Breeding Technology." His lecture included a brief but insightful discussion on Generative AI and Agentic AI, highlighting their emerging significance.

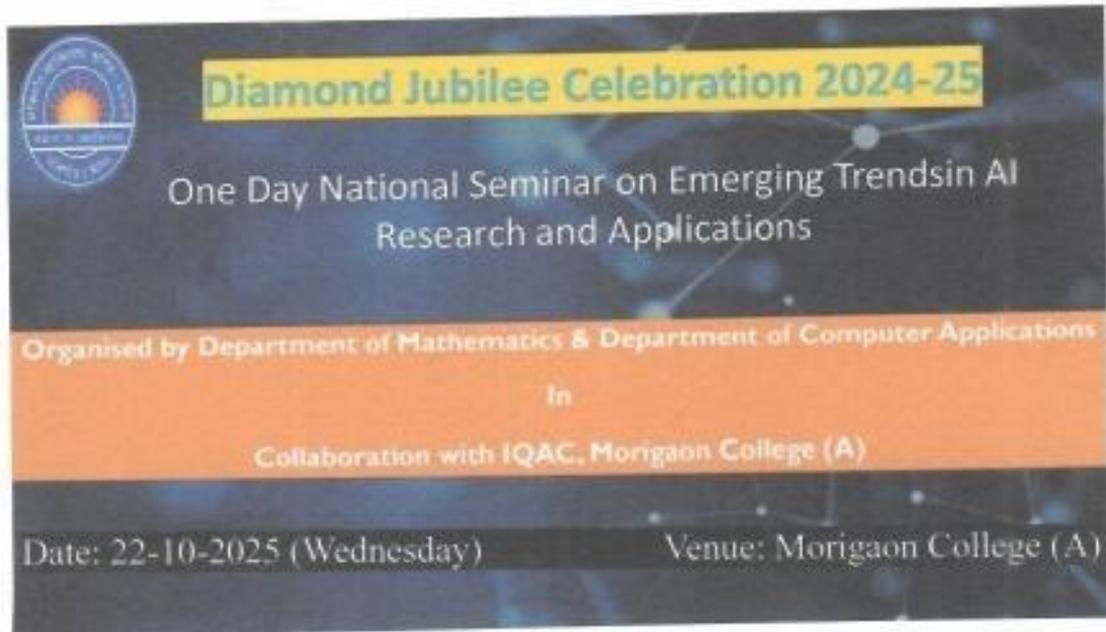
Throughout the seminar, participants presented research papers on a wide range of AI-related topics, including recurrent neural networks, natural language processing, speech recognition, feature extraction, and other contemporary areas. These sessions facilitated meaningful academic exchange and encouraged interdisciplinary discussions.

The seminar concluded with a valedictory session addressed by Dr. Lila Kanta Barthakur, Principal, Morigaon College (Autonomous), who commended the organisers, speakers, and participants for their collective efforts in making the event a success. A formal vote of thanks was delivered by Upashana Gogoi, Joint Coordinator of the seminar, expressing gratitude to all contributors, guests, and participants.

Key Learnings and Outcomes:

1. Enhanced understanding of AI fundamentals and evolution, including the strong connection between mathematics and modern AI systems.
2. Insight into emerging AI technologies such as deep learning, generative AI, and agentic AI, along with their real-world applications.
3. Awareness of the ethical and responsible use of AI tools in academic research and professional practice.
4. Exposure to current research trends through presentations on neural networks, NLP, speech recognition, and feature extraction.
5. Strengthened academic collaboration and motivation for future research, encouraging participants to pursue innovative studies in the field of AI.

Photo Gallery







Signatures of the participants

One-Day National Seminar
on
Emerging Trends in AI Research and Applications.

Organized by

Department of Mathematics and Department of Computer
Applications, Moriganj College (A)
in collaboration with
IQAC, Moriganj College (A)

Date : 22/10/2025

Venue : New Conference Hall
Moriganj College (A)

Time : 9:30 AM onwards

Signatures of the Guests.

1. Praem Sri Talwar

2. Manoj K. Datta

3. Dr. Dharmajyoti Kulkarni

4. Dr. Jyoti Kulkarni

5. Dr. Rupam Kumar Sharma

6. Dr. Anurima Dasgupta

7. PROF. TARINI K. DUTTA

8. Babul Talwar

9. Pratik Jyoti Sarma

10. Ruden Kumar Saha

11. Dr. Hemanga Jyoti Samal

Sl No.	Name	Designation	Name of the Institute	A
1	TRISHNA SORA	POST STUDENT	COLLEGE OF EDUCATION, NAHAON	
2	Dr. Alakesh Roy	Librarian	Morigaon College (A)	
3	AMELA BRAHMA	PHD Scholar	BODOLAND UNIVERSITY, KARASHAN	
4	GWGWM BORGORYARY	PHD Scholar	BODOLAND UNIVERSITY, Karashan	
5	PRANCHIS NARRABE	PHD scholar	Dardelan University	
6	DR. ABDUL QUIM ISMAH	Assistant Professor	Morigaon College (A)	
7	DR. ARUNIMA SARMA	Associate Professor	Morigaon College (A)	
8	Mrimogya Baidya	Assistant Professor	Morigaon College (A)	
9	Dr. Saraswati Choudhury	Assistant Professor	Morigaon College (A)	
10	Dr. Budden Kumar Saikia	Associate Prof	Morigaon college	
11	Dr. Pranab Jyoti Sarma	Asst. Prof.	Morigaon College	
12	Rajit Malo	Asst. Prof.	Morigaon College	
13	Bismit K. Panyang	Asst. Prof.	Morigaon College	
14	Panyang Zhus	Asst. Prof	Morigaon College	
15	Chaitani Das	Asst. Professor	Morigaon college	
16	Palab kr Borah	Asst. Professor	"	"
17	Nabanika Sankar	Asst. Professor	"	"
18	Longali Ganad	"	"	"
19	Ritumaj Das	"	"	"
20	Dilli Jaro	Asst. Professor	"	"
21	Prafulla Ka. Bora	"	"	"
22	Jindad Ali	"	"	"
23	Hansika Hazarika	"	"	"
24	Nisha Patra	"	"	"
25	Upankash Lapi	"	"	"
26	Dr. Hanvanga Jyoti Sarma	"	"	"

Sl. No.	Name	Department	Semester	Roll No
1	Mirshay Nath	1st Sem	BCA	34
2	Maharaja Pratima Patra	1st sem		31
3	Pranayika Patra	1st sem	BCA	43
4	Keliana Malo	1st Sem	BCA	30
5	Karim K. Nath	BCA	1st Sem	27
6	Jyoti Prasad Bora	BCA	1st sem	24
7	Hiranya Biswas	BCA	1st sem	20
8	Ankit Debmath	BCA	1st Sem	05
9	Dibant Sharma	BCA	1st sem	16
10	Pransha Tamuli	1st Maths (BSc)	1st sem	150
11	Rajanya Fakhin	Maths (BSc)	5th Sem	23
12	Jenifa Ahmed	Maths (BSc)	5th Sem	44
13	Prashant Kumar Nath	Maths (BSc)	5th sem	21
14	Sahinadev Sena	Maths (BSc)	5th sem	03
15	Pratik Borah	Maths (BSc)	5th sem	21
16	Pijush Mandal	Maths (BSc)	5th sem	78
17	Aman Bora	Maths (BSc)	5th sem	110
18	Surajit Das	BCA	3rd Sem	15
19	Tulsi Mandal	BCA	3rd Sem	17
20	Rajwanshi Rajman	BCA	3rd sem	11
21	Dipankar Medhi	BCA	2nd sem	5
22	Sreshth Ahmed	BCA	2nd Sem	2
23	Sunjit Saha	BCA	3rd Sem	16
24	Ankur Ergti	BCA	5th Sem	01
25	Bikashita Patra	B.Sc (Maths)	5th Sem	15
26	Rashmi Deka	B.Sc (Maths)	5th Sem	22
27	Makmalul Hossain	B.Sc (Maths)	5th sem	58
28	Rungama Boro	B.Sc (Maths)	1st Sem	183
29	Gauri Sankar Yogi	BCA	1st sem	17
30	Moni Devi	BCA	1st sem	36
31	Purnabi Devi	BCA	1st sem	44
32	Mousumi Saha	BCA	1st sem	37
33	Poo Devi	BCA	1st sem	35

Sl. No.	Name	Department	Semester	Roll No
			1 sem	41
34	Parismita Hukai	BCA 1st sem	1 sem	38
35	Jemali Das	BCA	2nd sem	12
36	Renaka devi	BCA	2nd sem	10
37	Narsion Maibum Nohar	BCA	1st sem	62
38	Sikhita Mandal	B.Sc	1st sem	9
39	Aliaha Das	B.Sc	1st sem	46
40	Ritosa Raj Mahanta	BCA	1st sem	39
41	Akshita Sankha	BCA	1st sem	06
42	Anuj Mahanta	BCA	1st sem	07
43	Ayan Nath	B.Sc	1st sem	65
44	Garvab Jyoti Nath	BCA	1st sem	28
45	Khurus Molo	B.Sc	1st sem	202
46	Shyamali Devi	B.Sc	1st sem	164
47	Puja Deka	B.Sc	1st sem	221
48	Trishna Devi	B.Sc	1st sem	166
49	Prayakshi Ray	B.Sc	5th sem	71
50	Nandan Pradip Nath	B.Sc	2nd sem	21
51	Bhargya Jyoti Medhi	B.Sc	3rd sem	226
52	Pragyan Nath	B.Sc	2nd sem	124
53	Pratik Chakrabarty	B.Sc	3rd sem	70
54	Jitumoni Boro	B.Sc	3rd sem	86
55	Debasish Malang	B.Sc	3rd sem	103
56	Hairal Kumar patra	B.Sc	3rd sem	127
57	Susanta Deka Pat Sankha	B.Sc	3rd sem	169
58	Susanta Deka	B.Sc	3rd sem	65
59	Habibullah	B.Sc	3rd sem	185
60	Bahiya Rahmatullah	B.Sc	2nd sem	42
61	Ekarri Nam	B.Sc	3rd sem	69
62	Imamul Hussain	B.Sc	1st sem	151
63	Ranika Pradip Baralilai	B.Sc	1st sem	80
64	Jiban Das	B.Sc	2nd sem	82
65	Kinty Ranjan Nath	B.Sc	1st year	109
66	None patra	HS		

Sl No.	Name	Department	Semester	Roll No.
67	Mrigankh Goswami	Hs 1st year		142
68	Chayanta Goswami	Bsc 3rd Mathematics	Bsc 3rd sem	33
69	Madhurita Sabotia	Mathematics	Bsc 3rd sem	91
70	Nabiel Hussain	Mathematics	Bsc 3rd Sem	108
71	Hirak Jyoti Das	Mathematics	B.Sc 2 nd Sem	61
72	Lakhyasit Borak	Mathematics	BSC 3rd Sem	88
73	Sindossi Laila	Mathematics	BSC 3rd Sem	50
74	Karima Khatun	Chemistry	B-sc BSc Sem	80
75	Karan Barua	Hs 1st year	Science	82
76	Manab Jyoti Deka	Mathematics	Bsc 1st sem	110
77	Bhabajyoti Seka	Mathematics	B.Sc 2 nd Sem	81
78	Ritamoni Goswami	Mathematics	B.Sc 1 st Sem	100
79	Musabbir Ali	Chemistry	BSC 1 st Sem	131
80	Salema Khatun	Chemistry	B-sc-1st Sem	192
81	Khatun Bontai Amali	Chemistry	1st sem	96
82	Kristna Borah	Chemistry	B.Sc 1 st Sem	99
83	Wahida Khatun	Chemistry	B.Sc 1st Sem	226
84	Purnu Devi	"	1st Sem	153
85	Nikshita Saha	Physics	"	149
86	Jeebna Biswas	Mathematics BCA	BCA 1st Sem	29
87	Barana Rani Devi	Mathematics BCA	BCA 1st Sem	8
88	Brisha Bagchi	BCA	BCA 1st Sem	10
89	Sukanya Bordelei	Chemistry	Bsc-1 st Sem	209
90	Chandana Biswas	Chemistry	BSC-1st Sem	42
91	Ahmed Mansur	Chemistry	BSC-1st Sem	02
92	Abhijit Biswas	Chemistry	BSC-1st Sem	01
93	Jit Kumar Biswas	Chemistry	BSC-1st	81
94	Biraj Kr. Sarker	Mathematics	BSC-1st	36
95	Ahmedul Alam	Chemistry	BSC-1st	23
96	AKbar Ali	Chemistry	BSC-1st	7
97	Jesib Ahmed	Physics	BSC-1st	79
98	Mahmud Khan	Physics	BSC-1st	107
99	Mustafizul Islam	Physics	BSC-1st	134

Sl No.	Name	Department	Roll No.
100	Minkes Anoman Horace	Mathematics	121
101	Naliniyati Barua	maths	107
102	Partha pratim Hengul	BSc	121
103	Barmit Nath	1st year	86
104	Gouranga Bora	BSc 3rd Sem	52
105	Peanamita Devi	BSc 1st sem	158
106	Jubli Jalukdasi	BSc 1st sem	82
107	Rianki Bosa	BSc 1st sem	172
108	Gritika Phukan	BSc 1st sem	68
109	Khalil choudhuri	B.Sc. 1st Sem	95
110	Musaddik Alam	B.Sc 1st sem	122
111	Asif Ahmad	B.sc 1st sem	29
112	Pionj Ahmad	B.Sc 1st Sem	69
113	Nilakshi Das	B.sc 1st sem	116
114	Disha Barua	B.sc 1st sem	53
115	Nitin Baruah	B.sc 1st sem	142
116	Gourava Boudalai	B.Sc 1st Sem	60
117	Anpita Devi	BCA 5th sem	03
118	Kuki Bora	BCA 5th Sem	
119	Jayamin Barua	BCA 5th Sem	
120	Prakrit Das	BCA 5th Sem	05
121	Anilandeep Konwar	BSC 1st Sem	11
122	Trailokya Das	BCA 5th Sem	11
123	Toxin Antri	BCA 5th Sem	10
124	Gulmoni Patra	BCA 5th Sem	9
125	Shikhyoti Nath	BCA 5th Sem	9
126	Pransh Boudalai	BCA 5th Sem	06
127	Mehreen Ahmad	BSC 1st Sem physics Dept.	120

List of paper presenters:

Sl. No.	Name of the participants	Title of the paper	Affiliation
1.	Dr. Rupam Kumar Sharma	The Role of Deep Learning in Transforming Maize Genomic Prediction and Breeding for Climate Resilience	Assistant Professor Department of Computer Science and Engineering Rajiv Gandhi University Arunachal Pradesh
2.	Upashana Gogoi	Some Results on Cognitive Consequence Topological Space	Assistant Professor, Department of Mathematics, Morigaon College (Autonomous)
3.	Dr. Birat Kumar Panyang	Role of Artificial Intelligence (AI) in Education as Balancing Act between Personalization and Pedagogy	Assistant Professor Dept. of Education, Morigaon College (Autonomous), Morigaon, Assam
4.	Dr. Imdad Ali	Artificial intelligence (AI) support for Students' Metacognitive Skills for Developing in Mathematics Problem-solving	Morigaon HS and MP School, Morigaon (Assam) Department of Mathematics, KKHSOU Study Centre Morigaon, Morigaon College, Morigaon (Assam)
5.	AMKAR BRAHMA	Techniques and Model Adaptations for Robust Child Speech Recognition: A Comprehensive Review	Computer Science and Technology, Bodoland University, Kokrajhar - 783370, India
6.	Gwgm Borgoyary	Dialect Speech Recognition of Bodo Language Using MFCC Feature-Based Approach with the help of SVM	Research Scholar, Department of Computer Science and Technology, Bodoland University, Kokrajhar, BTC, Assam-783370, India.
7.	Pranchis Narzaree	Detection of Bodo Toxic Words using Recurrent Neural Network	Research Scholar, Department of Computer Science and Technology, Bodoland University, Kokrajhar, Assam, India
8.	Dr.Saradashree Choudhury	Evolution of Reading Practices in the 21st Century: Printed Page vs. Digital Interface	Assistant Professor Dept. of English, Morigaon College (Autonomous)
9.	Dr. Pranab Jyoti Sarma Mr. Rajib Malo	Implication of AI for Transforming the Urgent Global Challenges of Sustainable Development and Climate Change	Assistant Professor, Department of Geography, Morigaon College (Autonomous)
10.	Bulbul Das ¹ Dr. Abdul Quium Osmani ²	Computer Education through AI for Differently Able Person	¹ Department of Computer Applications,

			² Department of Zoology, Morigaon College (Autonomous)
11.	Nabanika Sarkar	Sentence Boundary Detection Using Acoustic Prosodic Features for Audiobooks	Department of Computer Applications Morigaon College (A), Morigaon, Assam
12.	Dr Pranjeet Das	Where Tradition Meets Technology: The AI Struggle of India's MSMEs	Assistant Professor, Department of Banking/ Finance Morigaon College (Autonomous)
13.	Dr. Alakesh Roy	Application of Generative AI in Libraries	Librarian, Morigaon College (Autonomous)

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