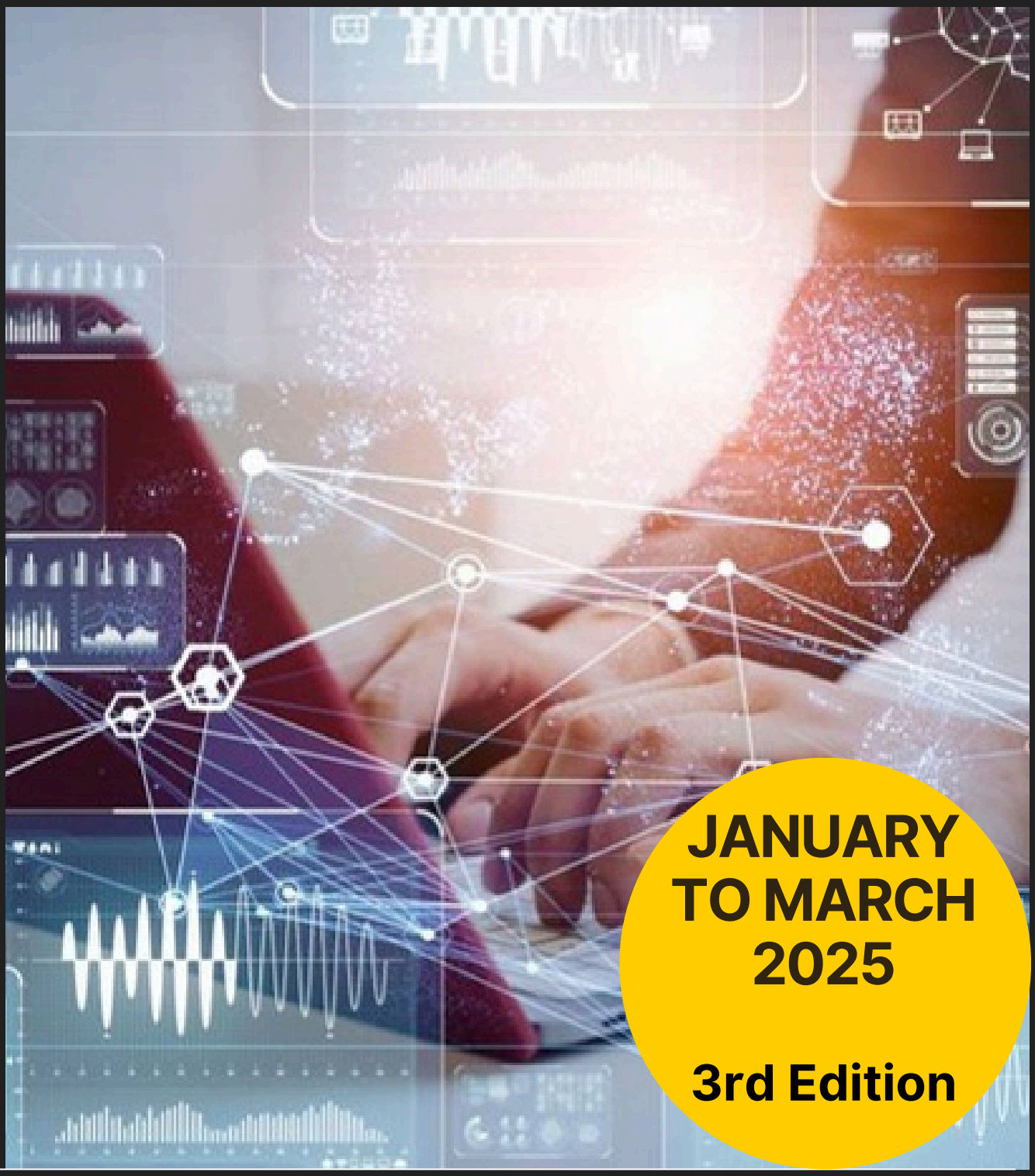
COMPUTER SCIENCE ENGINEERING SOCIETY MAGAZINE



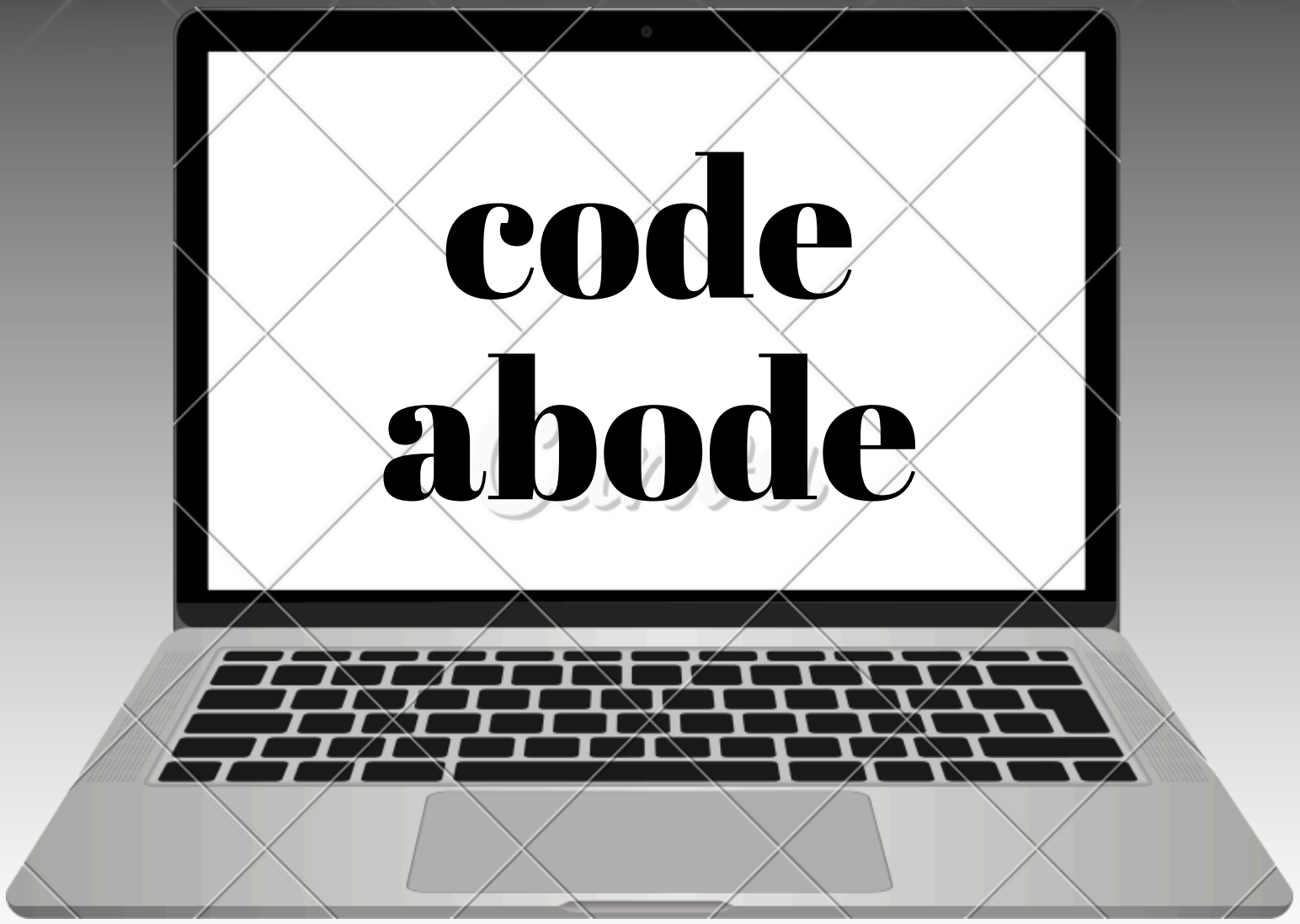
JANUARY TO MARCH 2025

3rd Edition

DEPARTMEMNT OF CSE, NIT MEGHALAYA

CODE ABODE

The department of Computer Science and Engineering Brings to You



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ABOUT THE DEPARTMENT

The Department of CSE at NITM has adequate facilities to support each activity needed for a batch of 30 students (per semester). It has a well-qualified and experienced faculty team consisting of 9 faculty members. The Computer Science & Engineering department makes every effort in imparting high-quality education to its motivated students. One of the aims of this department is to play the role of producing Computer Engineers ready to satisfy the needs of the Computer and IT world. The Department is also actively involved in various research activities.

The department also started its Mtech program from 2014 with an initial intake of 20. There is also a PhD programme under which research scholars are admitted twice a year.

Vision

Attaining global recognition in Computer Science & Engineering education, research and training to meet the growing needs of the industry and society.

Mission

- Imparting quality education through well-designed curriculum in tune with the challenging software needs of the industry
- Providing state-of-art research facilities to generate knowledge and develop technologies in the thrust areas of Computer Science and Engineering.
- Developing linkages with world class organizations to strengthen industry-academia relationships for mutual benefit.

ABOUT THE DEPARTMENT

Program Educational Objectives (PEOs):

PEO1 Apply computer science theory blended with mathematics and engineering to model computing system.

PEO2 Design, implement, test and maintain software systems based on requirement specifications

PEO3 Communicate effectively with team members, engage in applying technologies and lead teams in industry.

PEO4 Assess the computing systems from the view point of quality, security, privacy, cost, utility, etiquette and ethics.

PEO5 Engage in lifelong learning, career enhancement and adapt to changing professional and societal needs.

Program Specific Outcomes (PSOs):

PSO1 The ability to understand, analyse and develop solution strategy towards problems in the areas related to algorithms, system software, machine learning, and Artificial Intelligence, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

PSO2 The ability to understand the evolutionary changes in computing, apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success, real world problems and meet the challenges of the future.

PSO3 The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, lifelong learning and a zest for higher studies and also to act as a good citizen by inculcating in them moral values & ethics.

HODs CSE Department

08/01/2013 - 20/01/2014

DR. ALOK CHAKRABARTY

01/07/2019 - 07/08/2022

DR. YOGITA

21/01/2014 - 19/01/2017

DR. RAJARSHI RAY

08/08/2022 - 03/07/2024

DR. SURMILA THOKCHOM

20/01/2017 - 30/06/2019

DR. DIPTENDU SINHA ROY

04/07/2024

DR. DEEPAK KUMAR

Research & Development

Journals

- Dkhar, Timothy, Chandrasen Pandey, Sharmila AJ Francis, Diptendu Sinha Roy, and Ashish Kr Luhach. "NeuroSync: A Novel Neural Network Architecture for Time Series Forecasting of Vehicle Traffic Data Over 5G and Beyond." International Journal of Communication Systems 38, no. 6 (2025): e70035.
- Hussain, M. W., Sangaiah, A. K., Reddy, K. H. K., Roy, D. S., Alenazi, M. J., & Javvaji, P. K. (2025). A Novel Intelligent Task Offloading Scheme for Multi-Controller Environment in Software Defined Internet of Vehicles. IEEE Internet of Things Journal.
- M. R. Singh, R. K. Barik, S. N. Qurashi, S. Thokchom and D. S. Roy, "A Novel Pairing Free Revocable Certificateless Encryption With Ciphertext Evolution for Healthcare System," in IEEE Access, vol. 13, pp. 27940-27951, 2025, doi: 10.1109/ACCESS.2025.3533367
- Abisek Dahal, Soumen Moulik, “Multi-stream CNN-BiLSTM Framework for Enhanced Human Activity Recognition Leveraging Physiological Signal”, IEEE Sensors Letters, vol. 9, no. 2, Feb. 2025. DOI: 10.1109/LSENS.2025.3526446.
- Pratik, S., Sharma, P., Nayak, D.R. and Balabantaray, B.K., 2025. WMCF-Net: Wavelet pooling-based multiscale contextual fusion network for polyp classification. Biomedical Signal Processing and Control, 107, p.107727
- Pratik, S., Sharma, P., Balabantaray, B.K. and Pachori, R.B., 2025. MSPolypNet: A residual multi-scale semantic approach for polyps segmentation. Computers and Electrical Engineering, 123, p.110224.
- Rana, D., Pratik, S., Balabantaray, B.K., Peesapati, R. and Pachori, R.B., 2025. GCAPSeg-Net: An efficient global context-aware network for colorectal polyp segmentation. Biomedical Signal Processing and Control, 100, p.106978.
- Dillip Kumar Mishra, Bunil Kumar Balabantaray, 2025, RSA vs Quantum Encryption: Flexibility, Security, and Performance Analysis for Information Processing, Journal of Information Systems Engineering and Management (Accepted)

Conferences

- Shemphang Ryntathiang, Abisek Dahal, Soumen Moulik, “Leveraging Gait Patterns and Machine Learning for Early Detection of Alzheimer's Disease”, IEMENTech 2025, Kolkata, India, 31 Jan - 2 Feb, 2025.
- Anurag Joardar, Ningthoujam Johny Singh, "Adapting Vision Transformers for Effective Facial Expression Recognition", in 3rd International Conference on Intelligent Systems, Advanced Computing and Communication, IEEE, 27 - 28 February, 2025

Running Projects

- Design and Development of Intelligent Cyber Physical System for Prediction, Early Detection and Remote Monitoring of Alzheimer's Disease in Real-Time using Bio-Multifunctional Smart Wearable Sensors. Funded by Science and Engineering Research Board (SERB) at a total cost of ₹6111867/-

PI: Dr. Soumen Moulik, Computer Science & Engineering, NIT Meghalaya

Co-PI: Dr. Debasis Das, Computer Science & Engineering, IIT Jodhpur

Dr. Badal Soni, Computer Science & Engineering, NIT Silchar

- A Deep Learning Approach for Preservation of Cultural Heritage. Funded by SERB at a total cost of ₹23,91345/-

PI: Dr. Bunil Kumar Balabantaray, NIT Meghalaya

- Use of Artificial Intelligence and Deep Learning Methods to predict Pain outcomes after transforaminal nerve block (TENB) in patients of lumber spondylosis. MRU-AIIMS Raebareli ₹50000/-

PI: Dr. Bunil Kumar Balabantaray, NIT Meghalaya

Student Achievements

Student Achievements

Ph. D Thesis Awarded

Mr. Chandrasen Pandey (P21CS017) from the Department of Computer Science Engineering under the supervision of **Prof. Diptendu Sinha Roy** has been awarded Doctor of Philosophy for the thesis entitled "**Data Augmentation with Generative AI for Edge Traffic Analytics over 5G and Beyond Networks**" on 7th March 2025.

Mrs. Sonali Samal (P21CS002) from the Department of Computer Science Engineering under the supervision of **Dr. Bunil Kumar Balabantaray** has been awarded Doctor of Philosophy for the thesis entitled "**Development of Efficient Deep Learning Models for the Identification of Obscenity to Safeguard Women, and Society**" on 7th March 2024.

Mr. Anil Kumar Swain (P19CS007) from the Department of Computer Science Engineering under the supervision of **Dr. Bunil Kumar Balabantaray** has been awarded Doctor of Philosophy for the thesis entitled "**Development of AI-Driven Techniques for Enhanced Lung Cancer Detection and Classification**" on 7th March 2024.

Student Achievements

Ph. D Thesis Awarded

Mr. SR Ngamwal Anal(P19CS011) from the Department of Computer Science Engineering under the supervision of **Dr. Yogita** has been awarded Doctor of Philosophy for the thesis entitled "**Detection of Adverse Drug Reactions Using Deep Learning Techniques with Case Studies on COVID-19 Vaccines and Drugs**" on 7th March 2025.

An android-based app "**Mushroom Mentor**" is developed for Meghalaya mushroom farmers jointly by College of PG studies in Agriculture Science (CAUI), Umiam and NIT Meghalaya with team of students and faculties.

Indian patent on "**A SYSTEM AND A METHOD FOR QUANTUM COMMUNICATION BY OBJECT TELEPORTATION IN VARIANT SPACE TIME DOMAIN**" is granted to Mr. Dilip Kumar Mishra (P22CS002) and Dr. Bunil Kumar Balabantaray on 24.01.2025.

Faculty Details

Prof. Diptendu Sinha Roy Ph.D, BIT Mesra
Professor & Dean (Research & Consultancy)
Research Interest
Grid, Cloud and Distributed Systems, Data Analytics in Smart Grid Domain, Application of Soft and Evolutionary Computing, Software Reliability

Dr. Deepak Kumar Ph.D , NIT Meghalaya
Assistant Professor & HOD
Research Interest
Computational Mathematics, Digital Signal Processing, Machine Learning

Dr. Akhilendra Pratap Singh, Ph.D, IIIT Allahabad
Assistant Professor
Research areas:
Blockchain Technology, Service Computing, Service Oriented Network Architecture, Localization and Routing in Wireless Sensor Networks, Semantic Web and Linked Open Data.

Dr. Bunil Kumar Balabantaray, Ph.D. (NIT Rourkela)
Assistant Professor
Research Interest
Robotics , Image Processing, Biomedical Image Analysis and Cyber Security

Dr. Diangarti Bhalang Tariang Ph. D, IIT Kharagpur
Assistant Professor
Research Interest
Machine Learning, Deep Learning, Generative AI, Multimedia Forensics, Synthetic Media Forensics.

Dr. Ngangbam Herojit Singh PhD, NIT Manipur
Assistant Professor
Research Interest
Mobile Robot Navigation, Artificial Intelligence, Healthcare Applications, Hybrid Intelligent System

Dr. Ningthoujam Johny Singh PhD,
IIIT Manipur
Assistant professor
Research Interest
Computer Vision, Machine Learning, Deep Learning, Machine Translation for low resource languages

Dr. Soumen Moulik Ph.D, IIT Kharagpur, India
Assistant Professor
Research Interest
Wireless Personal/Body Area Networks (MAC of IEEE 802.15.4, IEEE 802.15.6), Wireless Sensor Networks, Internet of Things, Machine Learning

Dr. Surmila Thokchom Ph.D, NIT Meghalaya
Assistant Professor
Research Interest
Security in Cloud computing, IoT, Smart grid, Cryptography and Machine Learning

Dr. Thoudam Doren Singh PhD,
Jadavpur University
Assistant professor
Research Interest
Human Language Technology, Applied Machine Learning, Big Data, Cloud Security, and Social Media Analytics.


Student
Details

BTECH 2021-2025

Faculty Advisor

DR. AKHILENDRA PRATAP

Anshu Das
B21CS001

Parthiv Das
B21CS002

Ananya Manohar
B21CS003

Freddy John Dkhar
B21CS004

Kishan Ranjan
B21CS005

Ankit Singh
B21CS006

Panga Sai Teja
B21CS008

Nangsan Pyrkhat Wanrieh
B21CS009

Willybert Mallai
B21CS010

Avinash Renukunta
B21CS011

Jayden Blah
B21CS013

Chebolu Sai Teja
B21CS014

Ankit Saini
B21CS015

Aidan Ehbok Wankhar
B21CS016

Aditya Kumar
B21CS024

Bengi Warsaw R Sangma
B21CS017

Nitesh Singh
B21CS025

Shubhavi Kukreja
B21CS018

Cleverson Mynthlu
B21CS026

Naphisabet Kharnaior
B21CS019

Iahunshisha Syiemiong
B21CS027

K. Ujawl Chakma
B21CS020

Deepti Gautam
B21CS028

Roshan Kumar Sah
B21CS021

Supriya Neogi
B21CS029

Saman Mawon
B21CS022

Nitish Modi
B21CS030

Adi Jithendra Babu
B21CS023

Gutti Madhulika
B21CS031

Akshayan M
B21CS032

Abhishek Anand
B21CS033

Yash Raj Gupta
B21CS034

Achintya Chaudhary
B21CS035

Shreya Poddar
B21CS036

Manish Kumar Dubey
B21CS037

Koruprolu Bhagya Raju
B21CS038

BTECH 2022-2026

Faculty Advisor

DR. DEEPAK KUMAR

Md. Rasel Mandol
B22CS001

Amartya Ghosh
B22CS002

ROUNAK SAHA
B22CS008

MOHD ASHAD ANSARI
B22CS003

POTHULA APARNA
B22CS009

BADURGARI RASOOL
B22CS004

MANADAPBIANG MAWLIEH
B22CS010

LAWANBANSHAN KUPAR LYNGDOH
B22CS005

ADITEYA SIVAKUMAR
B22CS011

KAMPA RAMAKRISHNA
B22CS006

AVINASH KUMAR SINGH
B22CS012

MANISH PRASAD GUPTA
B22CS007

RITABRATA PAL
B22CS013

ALVIN GARNET LANGSTIEH
B22CS014

KARIPIREDDY SURYA TEJA GOPAL REDDY
B22CS022

WAMESAMBIANG LALOO
B22CS015

BINJRAJ SINGH
B22CS023

PILLI SHANYU VEDA SESHU
B22CS016

JELIYAN REANG
B22CS024

AMAN SINGH RATHORE
B22CS017

ETHANEAL MCKENZIE BASAIAWMOIT
B22CS025

DESILGA K SANGMA
B22CS018

PREM KUMAR GUPTA
B22CS026

GURIJALA MEGHANA
B22CS019

IOHHUN IKA LAMARE
B22CS027

MEBANKER KHYRIEM
B22CS020

THUMU RAKESH SRIKAR REDDY
B22CS028

SIDDHANT PURKAYASTHA
B22CS021

SAMIKSHA DEB
B22CS029

SHEMBHA NYLLA PHIN
B22CS030

SHIVESH KUMAR
B22CS038

JAMES ANDERSON SUN
B22CS031

ANJALI OJHA
B22CS032

T VIKRAM RATHOD
B22CS033

SOHAN SAHA
B22CS034

GUNNU LAVANYA
B22CS035

MRINMOY MAJI
B22CS036

VANSHIKA SARRAF
B22CS037

BTECH 2023-2027

Faculty Advisor

DR. SOUMEN MOULIK

Aarya Mallik
B23CS001

Anshuiya Karki
B23CS002

Anupam Aanand
B23CS008

Kavindu Dilshan Amarasingha
B23CS003

Nancy Tinglalnei
B23CS009

Gabriel L Jongte
B23CS004

Deijuhhi Dkhar
B23CS010

Vignesh Sunil Patil
B23CS005

Priyanshu Singh
B23CS011

Ribait Phawa
B23CS006

Koyel Kalita
B23CS012

Indra Shikhar Sharma
B23CS007

Erico N Marak
B23CS013

Purushottam Thakur

B23CS014

Subrata Das

B23CS015

Komal Chaudhari

B23CS016

Shefali

B23CS017

Mudhivarthi Bhanu Sri Manasa

B23CS018

Shashank Umar Vaishy

B23CS019

Chuncha Hemchand

B23CS020

Shivam Pratap Singh

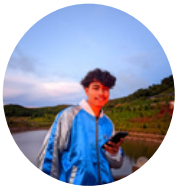
B23CS021

Bekkam Manohar Sai

B23CS022

Kerborlang Khyriem

B23CS023



Aibansansame Kharbani

B23CS024

Abhishek Kumar

B23CS025

Rahul Das

B23CS026

Navnit Sawarn

B23CS027

Anish Jhajharia

B23CS028

Shyam Pandey

B23CS029

Gladia Me Hi Wa E Ka Slong

B23CS030

Brian Lim Sun
B23CS031

Aditya Singh
B23CS033

Ngachamsung Jagoi
B23CS034

Austin Joel Dympep
B23CS035

Rahul Prasad
B23CS036

Jishnu Duhan
B23CS037

Aman Kumar
B23CS038

Hiyashree Sarma
B23CS039

Raunak Prabhakar
B23CS041

BTECH 2024-2028

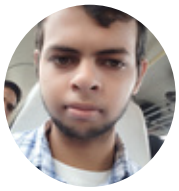
Faculty Advisor

DR. NINGTHOUJAM JOHNY

MOHIT KUMAR PRASAD
B24CS001

AADESH UPADHAYA
B24CS002

K HEMANTH
B24CS008



HIMANSHU GUPTA
B24CS003

GORDON KUPAR NONGBRI
B24CS009

ARYAN SAHA
B24CS004

DEEPANSH SAH
B24CS010

EMITRE KYNDIAH
B24CS005

AJAY RAJ YADAV
B24CS011

RISHAB MANKOTIA SYNJRI
B24CS006

ROHIT DAS
B24CS012

AISHI PANDEY
B24CS007

DONBOK SYIEMLIEH
B24CS013

ELIJAH BANSAN SHYLLA
B24CS014

ALFRED HRIIZIIO CHACHEI
B24CS022

YATHARTH SINGH
B24CS015

PRIYA SAHA
B24CS023

BIBHUTI KUMAR MISHRA
B24CS016

NATHANAEL TUISUM
B24CS024

AMAN VERMA
B24CS017

REMICA BRENDA SUTNGA
B24CS025

ANKITA SINGH
B24CS018

DHARAVATH DRUSHYANTH
B24CS026

B J MAHALAKSHMI
B24CS019

NATHANIEL KHARSYNNIANG
B24CS027

KUNAL
B24CS020

PREETAM KUMAR PANDEY
B24CS028

SHREYANSH RAJ
B24CS021

HOMERSON KHARMALKI
B24CS029

B DHARUN
B24CS030

AVISHEK SAH
B24CS031

INESHA BANRI MANNER
B24CS032

BHABISHYA PAUDEL
B24CS033

ARKIWANBUDLANG BLAH
B24CS034

SHAIK THANVEER
B24CS035

KUNJANA PANTHY
B24CS036

PASUPU REDDY SHYAMESWAR
B24CS037

RHYTHM BHETWAL
B24CS038

ARPAN DAS GUPTA
B24CS039

ANUBHAB DEBNATH
B24CS040

MD SAIFUL ISLAM
B24CS041

AKASH MALAKER
B24CS042

MD. RAYED RAIYAN
B24CS039

MTECH 2023-2025

Faculty Advisor

DR. BUNIL KUMAR BALABANTARAY

SUBHASISH DUTTA
T23CS001

Sayantan Bose
T23CS002

Marissa Nova Khyriem
T23CS003

Dhananjay Bhargava
T23CS004

Shrikant Sharma
T23CS005

Ankita
T23CS006

Sweta Jha
T23CS007

Abygail Nora Lyngdoh
T23CS008

Sainphyrnai Marbaniang
T23CS009

Deibyntalang Mylliemngap
T23CS010

Badahun Konjir
T23CS011

MTECH 2024-2026

Faculty Advisor

DR. BUNIL KUMAR BALABANTARAY

Ritvik Sharma
T24CS001

Tanishq Sasmal
T24CS002

Utsav Balar
T24CS003

Lakshajyoti Paul
T24CS004

Lurshaphrang Mawiong
T24CS005

Mriganka Shekhar Das
T24CS006

Anushka Sarkar
T24CS007

Sohonsagar Singha
T24CS008

Rahil Agarwal
T24CS009

Siddhant Siwach
T24CS010

Rahul Maity
T24CS011

Skhembor Suchen
T24CS012

Divyodeep Chowdhury
T24CS013

Marvi Chadap
T24CS014

Abhijit Kachary
T24CS022

Saucy Mukhim
T24CS015

Shining Massar
T24CS023

Wallambok Rani
T24CS016

Ashutosh Kumar
T24CS024

Philarihun Khongshah
T24CS017

Agatha Zara Swett
T24CS018

Plabana Saud
T24CS020

Phidaiaibha Syiemlieh
T24CS021

The

RESEARCH SCHOLARS

Moirangthem Rabindra Singh
P19CS012

Prasant Kumar Mohanty
P21CS001

Madhusudan Naik
P21CS003

Pushpak Das
P21CS004

Anushka Chaurasia
P22CS001

Dillip Kumar Mishra
P22CS002

Namrata Govind Ambekar
P22CS003

Shreerudra Pratik
P22CS009

Lumlang Sawkmie
P22CS010

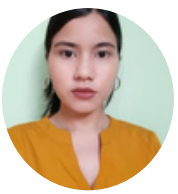
Abisek Dahal
P23CS001

Shaphiiakyrmen Skhembill
P23CS005

Audrey Liza Nongrum
P24CS001

Arindam Baidya
P24CS002

Ayush Shukla
P24CS004



Edawanbiang Dhar
P24CS005

Russell Cooper Banks
P24CS006

The

RESEARCH SCHOLARS

Samrat Sarkar
P24CS007

Subhrajeet Ganguly
P24CS010

Mhasivilie Sekhose
P24CS008

Shemphang Ryntathiang
P24CS011

Mughalu
P24CS009

Ericson Rani
P24CS012

Alumni Insights

Dr. Kaushik Ray,
Assistant Professor,
Department of CSE,
NERIST

Reflecting on my journey at NIT Meghalaya, I realize it was more than just an institution—it was a home, a place where I grew, learned, and built lifelong connections. The experiences I gained, both academically and personally, have shaped who I am today. Here's a small piece that captures my time at NIT Meghalaya.

NIT Meghalaya—a place I once called home,
Where dreams took flight and minds would roam.
Amidst the hills, beneath skies so wide,
I found my passion, my strength, my guide.

Mentors who lit the spark to grow,
Friends who stayed through highs and lows.
Late-night coding, coffee runs,
Endless laughter, midnight puns.
Not just books, but life it taught,
In every challenge, a lesson was caught.
Moments fleet, yet memories stay,
NIT Meghalaya—lighting my way.

Divyasree Dev
B.Tech (2020-2024 Batch, CSE)
Currently at Morgan Stanley

- *1st Recipient of the Chairperson's Gold Medal*
- *Former Student Convenor, Coding Club*
- *Generation Google Scholar*

Dearest Juniors,

Life at NIT Meghalaya was a journey of learning, struggles, setbacks, and growth. I've been in your shoes—navigating academics, self-doubt, and the pressure to prove myself. There were times when I felt like everything was falling apart. But every challenge you face here will shape you into the beautiful, wholesome person you deserve to be.

The world beyond college is challenging, but your time here has prepared you in more ways than you realize—not just academically, but in resilience, self-trust, and the ability to adapt. However, learning doesn't stop when you step beyond these gates. Whether in your job or higher studies, learning is a continuous journey. True success comes not only from expanding your knowledge but also from standing firm in your values, setting boundaries, and staying true to yourself.

So, stay curious, keep learning, believe in yourself, and never let fear dictate your choices. You are capable of more than you can imagine.

Your story is still unfolding—so don't give up on yourself yet.

Rooting for you always,
Divyasree Dev

FEATURED ARTICLES

From Chatbots to Action: Meet Agentic AI

by
Jishnu Duhan (B23CS037)

You might think chatbots can do everything—so what's next? EnterAgentic AI. Unlike traditional AI, which responds to prompts, Agentic AI takes action on your behalf. Many expertsconsider intelligent agents to be the ultimategoal of artificial intelligence, as defined by Russell and Norvig in their seminal work: "the study and design of rational agents."

To truly understand AgenticAI, we first need to ask: What is an agent?

Simply put, an agent is any system that can perceive its environment and take actions to influenceit. Whether it's a self-driving car navigating trafficor an AI assistant managing your schedule, an agent interacts with the world around it rather than just responding passively.

Agentic vs. Generative AI: A Paradigm Shift

We've all becomefamiliar with AI in its current, somewhatlimited forms. We ask Siri for the weather, use ChatGPT to solve our assignments, and maybe even interact with customerservice chatbots that (sometimes) help us solve problems. These are examples of generativeAI – tools that can create text, images, or code based on our prompts. But what if AI could do more than just generate responses? What if it could truly act on our behalf? That's the promise of agentic AI.

While a Generative AI might draft a scholarship application, an AgenticAI could findrelevant scholarships, fillsout applications usingstored academic data,tracks deadlines, and submits forms automatically.

Drawing from NVIDIA'sframework, Agentic AI operates througha cyclical process:

1.Perceive: Gatherdata from sensors,databases, or user inputs.

2.Reason: Use large language models (LLMs) to analyze information and strategize.

3.Act: Executetasks via APIs, robotics, or software tools.

4. Learn: Refine strategies using feedback loops, improving over time.

For instance, in healthcare, IBM's Agentic AI can monitorpatient vitals, adjusttreatment plans, and notify doctors— while continuously improving through experience.

Challenges: The Double-Edged Sword of Autonomy

AgenticAI's power comes with risks. A single error in a multi-step process can cascade—imagine a logisticsagent misrouting shipmentsdue to a flawed weather prediction. Moreover, as agents handle high-stakes tasks (e.g., financialtrading or medical diagnoses), ethicalconcerns around accountability and bias intensify. Ensuring robustness requires rigorous testing, "guardrails" for critical decisions, and transparency in AI reasoning.

Conclusion

The leap from simplechatbots to true AI agents isa game-changer. AgenticAI isn't about replacing humans—it's about empowering us with intelligent digital partners that handle complex tasks, freeing us to focus on creativity andinnovation.

The journey has just begun, but one thing is clear: Agentic AI is set to shape the future of technology and society in ways we can only begin to imagine.

References:

S. Russell & P. Norvig (2021) | Artificial intelligence: A modern approach.

Pounds, E. (2024, October 22). What is agentic AI? NVIDIA Blog.

COMING
SOON
Stay Tuned

Upcoming Events

Department of Computer Science and Engineering to Launch MCA Program Under NIMCET

The Department of Computer Science and Engineering (CSE) is planning to introduce the Master of Computer Applications (MCA) program, which will commence starting from next academic year. The program will be offered under the prestigious National Institute of Technology Master of Computer Applications Common Entrance Test (NIMCET) counseling, ensuring a standardized and high-quality curriculum. The admission into the MCA program is based on the rank obtained in NIMCET only.

5th International Conference on Intelligent Systems and Machine Learning is scheduled to organize by the Computer Science and Engineering Department during 16-17 May, 2025 at NIT Meghalaya

ICISML-2025

The 5th International Conference on Intelligent Systems and Machine Learning (ICISML-2025) is a leading event focused on the latest advancements in intelligent systems and machine learning. These technologies play a vital role in analysing vast amounts of data, aiding decision-making, and driving progress across various domains. By enabling machines to learn from data and perform human-like tasks, they facilitate the discovery of valuable insights and patterns. The conference provides a platform for researchers, practitioners, and industry experts to exchange knowledge, discuss challenges, and explore emerging trends in this dynamic field.

ABOUT NIT MEGHALAYA

The National Institute of Technology Meghalaya is one among the 31 NITs in India established under the NIT Act 2007 (Amended 2012) of the Parliament of India as Institutes of National Importance with full funding support from the Ministry of Education, Government of India. The Institute presently situated at Laitumkhrah, Shillong, India. The Institute has five Engineering Departments as Mechanical Engineering, Civil Engineering, Electrical Engineering, Electronics and Communication Engineering and Computer Science and Engineering. Since 2017, we are consistently maintaining our position in NIRF in top 100 institutes of India. In 2024, we are ranked at 68 by NIRF.

SHILLONG

Shillong is the capital city of Meghalaya and the District headquarter of East Khasi Hills. It is the only hill station in the country that is accessible from all sides. The name Shillong is derived from U-Shylong, a powerful deity and is situated at an altitude of 1,491m above sea level. Shillong is very well connected by air (Guwahati and Umroi Airport), by road (NH, connecting Guwahati-Shillong and by railway station. NIT Meghalaya campus is located at about 35 km from Umroi airport, 120 km from Guwahati airport and about 97 km from Guwahati railway station.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science & Engineering, NIT Meghalaya offers B. Tech degree in Computer Science and Engineering discipline. This U.G Programme in Computer Science and Engineering is perhaps the most popular Programme in NIT Meghalaya, with an average intake of 30 students per year. The department has adequate facilities to support these teaching activities. It has a well-qualified and experienced faculty team. The Computer Science and Engineering department makes all efforts in imparting high-quality education to its highly motivated students. One of the aims of this department to play its role of producing Computer Engineers ready to satisfy the needs of the Computer and IT world. The Department is also actively involved in various Research activities.

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Information Brochure

5th International Conference on Intelligent Systems and Machine Learning (ICISML-2025)

(May 09-10, 2025) (Hybrid Mode)

Organized by

Department of Computer Science and Engineering
National Institute of Technology Meghalaya - 793003, Meghalaya (INDIA)

ICISML 2025

The National Institute of Technology (NIT) Meghalaya is one among the thirty-one NITs in India established under the NIT Act 2007 (Amended 201...

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Editorial Board

Dr. Ningthoujam Johny Singh
Assistant Professer
Dept. Computer Science and Engineering

Dr. Diangarti Bhalang Tariang
Assistant Professer
Dept. Computer Science and Engineering

Shreerudra Pratik
P22CS009

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