



NEIAIS - 2025



**A THREE-DAY INTERNATIONAL CONFERENCE ON
NORTH EAST INDIA AI SUMMIT: UNRAVELLING TRENDS
(NEIAIS 2025)
10th -12th February, 2025**

Conference Program Schedule

DAY-1 (Monday): 10th February 2025

Time	Event	Duration (min)
09:00 AM	Conference Breakfast and Registration	40
09:40 AM	Assemble of Invitees, Delegates and Participants	10
09:50 AM	Arrival of Chief Guest, Guests of Honour & President	10
10:00AM	Felicitation of Dignitaries	10
10:10 AM	Lighting of Ceremonial Lamp	5
10:15 AM	Welcome Address by Dr. Th. Tangkeshwar Singh Senior Asstt. Prof., Dept. of Computer Science, M.U.	5
10:20 AM	Welcome Address by Prof. Jyoti Sekhar Banerjee (General Chair, NEIAIS-2025) Series Editor, FIST, CRC press, USA	5
10:25 AM	Speech by Prof. Sumitra Phanjoubam (Guest of Honour) Dean School of SMPS, Manipur University	5
10:30 AM	Speech by Prof. Shikhar Kumar Sarma (Guest of Honour) Dean of Technology, Gauhati University	5
10:35 AM	Speech by Prof. W. Chandbabu Singh (Guest of Honour) Registrar, Manipur University	5
10:40 AM	Speech by Prof. N. Lokendra Singh (Chief Guest) Hon'ble Vice-Chancellor, Manipur University	10
10:50 AM	Speech by Dr. Khumukcham Robindro Singh (President) Head, Dept. of Computer Science, Manipur University	5
10:55 AM	Vote of Thanks by Dr. S. Somorjeet Singh Dept. of Computer Science, Manipur University	5
11:00 AM	High Tea	15

11:15 AM	Keynote Talk by @ Prof. Shikhar Kumar Sarma, Dean of Technology, Gauhati University			45
12:00 PM	Keynote Talk by @ Prof. Jyoti Sekhar Banerjee, Bengal Institute of Technology, West Bengal, India			45
12:45 PM	Lunch Break			60
01:45 PM	Keynote Talk by @ Prof. Y. Jayanta Singh, Executive Director, NIELIT Imphal, Manipur.			45
02:30 PM	Technical Sessions			90
	TS-1 16, 17, 23, 43, 44, 58, 64	TS-2 10, 11, 18, 41, 42, 51, 63, 67	TS-3 19, 32, 35, 38, 45, 60, 91, 114, 118	
04:00 PM	High Tea			15

02:30 PM	Session-1 (HYBRID): Foundations and Applications of Machine Learning			90
	Session Chairs: Tejmani Sinam, Dr. Hanjabam Saratchandra Sharma			
	Meeting Link: https://meet.google.com/joy-haau-fhd			
	Sl. No.	Paper ID	Paper Title	
	1.	43	Clustering of foods based on nutritional profile using principal component analysis and k-nearest neighbour classification (Offline)	
	2.	44	Estimating Crop yields Using Machine Learning Algorithms (Offline)	
	3.	16	Comparative Analysis of Machine Learning based Specific Capacitance Prediction and Experimental Validation of Supercapacitive Performance in Cerium-based Electrodes	
	4.	17	Incremental Learning using CART and Genetic Programming for Handling Dynamic Training Data	
	5.	23	Machine Learning Methods for Improving Stock Price Prediction Accuracy	
	6.	58	A Novel Ensemble Rank Aggregation Feature Selection Algorithm for Classification	
7.	64	A novel stacking ensemble machine learning approach for landslide susceptibility mapping		

Paper Presentation will be for 10 minutes (max), followed by 5 minutes Q&A session.

02:30 PM	Session-2 (HYBRID): Deep Learning and Computer Vision		90	
	Session Chairs: Dr. Th. Tangkeshwar Singh, Dr. Rajeev Rajkumar			
	Meeting Link: https://meet.google.com/dzh-cwhs-ynn			
	Sl. No.	Paper ID		Paper Title
	1.	51		Offline Handwritten Character Recognition of Manipuri Script Using Convolutional Neural Network (CNN) and Vision Transformer (ViT) (Offline)
	2.	63		Feature-Driven Classification of AI and Human Text: Insights from Traditional and Neural Models (Offline)
	3.	10		A Hybrid Approach for Accurate Fish Segmentation: Integrating Vision Transformer and MobileNetV2
	4.	11		Predictive Efficacy Assessment of Deep Learning Models for Apple Leaf Disease Detection and Classification
	5.	18		Exploring Deep Learning Approaches for Hate Speech Detection in Assamese social media Text
	6.	41		Localized Detection of Rice Diseases Using YOLO 11: An Advanced Approach for Precision Agriculture
7.	42	Assamese Handwritten Script Segmentation Using Deep Learning Approach		
8.	67	Efficient Crack Classification through Transfer Learning with Pre-Trained Convolutional Neural Networks		

02:30 PM	Session-3 (HYBRID): Natural Language Processing and Smart Systems		90	
	Session Chairs: Dr. Devarani Devi Ningombam, Dr. Ksh. Nareshkumar Singh			
	Meeting Link: https://meet.google.com/kfd-gsop-fyk			
	Sl. No.	Paper ID		Paper Title
	1.	45		Detection of Sensitive Information using CRF in unstructured text (Offline)
	2.	91		Impact of Machine Translation Evaluation Metrics on Low Resource Languages (Offline)
3.	114	Evaluating LLMs and Pre-trained Models for Text Summarization Across Diverse Datasets (Offline)		

Paper Presentation will be for 10 minutes (max), followed by 5 minutes Q&A session.

	4.	60	Analyzing The Impact of Word2vec On Stance Detection in Low-Resource Languages: A Case Study on Manipuri Editorial Articles (Offline)
	5.	19	Using Sentiment Analysis to Enhance Digital Forensic Evidence Identification
	6.	32	Effect of stop words in Assamese Language for Identifying Toxic comments
	7.	35	Optimizing Low-Resource Khasi NER through Transfer Learning
	8.	38	Efficient Detection of Offensive Social Media Comments in Assamese Language Using LSTM
	9.	118	Sentiment Analysis on Code-Mixed Data: A Comprehensive, Qualitative and Quantitative Literature Survey

END OF DAY 1

Paper Presentation will be for 10 minutes (max), followed by 5 minutes Q&A session.

DAY-2 (Tuesday): 11th February 2025

Time	Session Details	Duration (min)	
9:00 AM	Conference Breakfast and Registration	60	
10:00 AM	Keynote Talk by @ Prof. Shahnawaz Khan, Head of Applied Research, Bahrain Polytechnic, Bahrain.	45	
10:45 AM	Keynote Talk by @ Prof. Jemal H. Abawajy, PhD, DSc., SMIEEE, Deakin University, Waurn Ponds Campus, Locked Bag 20000, Geelong, VIC 3220	45	
11:30 AM	Tea Break	15	
11:45 AM	Keynote Talk by @ Prof. S. Ranbir Singh, Department of Computer Science and Engineering, IIT Guwahati.	45	
12:30 PM	Lunch Break	60	
01:30 PM	Technical Sessions		
	TS-4 15, 49, 65, 100, 112	TS-5 12, 61, 66, 68, 70, 76, 105, 116	TS-6 8, 119, 4, 57, 79, 83, 86, 102, 106
03:00 PM	High Tea	15	
05:00 PM	Gala Dinner	60	

Session-4 (HYBRID): IoT Security and Network Technology				90
Session Chairs: Dr. Th. Rupachandra Singh, Dr. Nazrul Hoque				
Meeting Link: https://meet.google.com/xvk-onzr-egc				
01:30 PM	Sl. No.	Paper ID	Paper Title	
	1.	100	An extended SMOTE-based class balancing technique to improve classification accuracy on imbalanced datasets (Offline)	
	2.	112	A Review on various IOT-based Cattle health monitoring Systems (Offline)	
	3.	15	Beyond Characters: A Machine Learning Approach to Password Strength Analysis	
	4.	49	A Home-based Skill Improvement Tool Utilizing Smartphone Sensors	

Paper Presentation will be for 10 minutes (max), followed by 5 minutes Q&A session.

	5.	65	Advancements in Network Security Threat Detection Systems for Wireless Sensor Networks: A Review of Machine Learning and Deep Learning Techniques	
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01:30 PM	Session-5 (HYBRID): AI in Healthcare and Biomedical Applications			90
	Session Chairs: Dr. Taiyjenam Romen Singh, Dr. Satyajit Sarmah			
	Meeting Link: https://meet.google.com/zre-envh-pzh			
	Sl. No.	Paper ID	Paper Title	
	1.	105	Detection of Diabetic Retinopathy Using Deep-Learning Based Image Classification (Offline)	
	2.	12	An Investigation of Machine Learning Algorithms for Lung Disease Detection	
	3.	61	Robust MRI Brain Tumor Segmentation Using Integrated Mean Shift Clustering and Adaptive Thresholding	
	4.	68	Enhancing Medical Imaging Diagnostics with Federated Learning: Overcoming Data Heterogeneity	
	5.	100	A Hybrid Deep Learning Model for Accurate Brain Tumor Segmentation and Classification Using ResNet101 and U-Net	
	6.	76	Evaluating Machine Learning Models for Precision Disease Prediction	
	7.	116	Breast Cancer Classification using Machine Learning and Deep Learning: A Systematic Review of WBCD-Based Research and Future Directions	
	8.	66	Comparison of Machine Learning, Ensemble Learning, and Deep Learning Model for Predicting Ovarian Cancer: A Data-Driven Study	
9.	70	A Hybrid Deep Learning Model for Accurate Brain Tumor Segmentation and Classification Using ResNet101 and U-Net		

01:30 PM	Session-6 (HYBRID): Emerging Trends in AI and Computational Techniques			90
	Session Chairs: Dr. Pangambam Sendash Singh, Dr. Rubul Bania			
	Meeting Link: https://meet.google.com/vsi-witi-rgt			
	Sl. No.	Paper ID	Paper Title	
	1.	8	Investigation into a suitable voice pathology detection and classification using glottal inverse filtering (Offline)	

Paper Presentation will be for 10 minutes (max), followed by 5 minutes Q&A session.

	2.	79	Artificial intelligence and entrepreneurship in the context of current socioeconomic growth. Review (Offline)
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Paper Presentation will be for 10 minutes (max), followed by 5 minutes Q&A session.

3.	106	In Depth Comparative analysis of the combine effect of ML models and Feature Selection methods in Crop Yield Prediction (Offline)
4.	119	Advanced Fraud Detection in Financial Transaction Using Machine Learning
5.	4	Leveraging Machine Learning Techniques to Analyze Soil Organic Carbon Dynamics in the Eastern Himalayan Region
6.	57	Denoising in Terahertz Images
7.	83	Modeling Stock Prices Using XGBoost, Prophet, and ARIMA: A Comprehensive Evaluation
8.	86	Advancements in Sugarcane Disease Detection and Prediction
9.	102	AI-Powered Personalized Learning and Intelligent Recommendation Systems

END OF DAY 2

Paper Presentation will be for 10 minutes (max), followed by 5 minutes Q&A session.

DAY-3 (Tuesday): 12th February 2025

Time	Session Details	Duration (min)
09:00 AM	Conference Breakfast and Registration	60
10:00 AM	NEIAIS 2025 - AIORI IoT Workshop Prof. Indrajit De, Institute of Engineering & Management, Kolkata Mr. Anand Raje, CTO, AIORI	90
11:30 AM	High Tea	15
11:45 AM	Continue on NEIAIS 2025 - AIORI IoT Workshop	90
01:15 PM	Keynote Talk by @ Prof. Monowar Bhuyan, Umeå University, Sweden	45
02:00 PM	Lunch Break	60
03:00 PM	Keynote Talk by @ Dr. Arnab Kumar Maji, NEHU Shillong	45
03:45 PM	High Tea	15
04:00 PM	Certificate Distribution, Feedback and Closing	60

END OF DAY 3

Paper Presentation will be for 10 minutes (max), followed by 5 minutes Q&A session.