

Day-0
Program Schedule of Workshops
July 17, 2025 (Thursday)
Venue: Aryabhatta block, IIIT-Bangalore

08:30 - 09:30	Registration		Infront of A106
09:30 - 10:30	Workshop-1	Workshop-2	
10:30 - 10:45	TEA BREAK		Infront of A307
10:45 - 13:00	Workshop-1 (cont.)	Workshop-2 (cont.)	
13.00 - 14.00	LUNCH BREAK		Grand Stairs, Ramanujan block
14:00 - 15:30	Workshop-1 (cont.)	Workshop-3	
15:30 - 15:45	TEA BREAK		
16:45 - 17:30	Workshop-1 (cont.)	Workshop-3 (cont.)	
Workshop-1. 2 nd Indo-French Workshop on “Scalable Technologies for Real-time Event Analysis and Management” (STREAM) Website: https://streamspan.univ-nantes.io/n/workshop2/			A307
Workshop-2. Beyond Generation – Advanced AI Techniques for Stimuli Design, Conducting Interviews, and Generating Synthetic Data for Research Website: https://sites.google.com/view/beyond-generation			A304
Workshop-3. Workshop On Novel Algorithms, Models, Libraries and Tools for Achieving Sustainability and Energy Efficiency in Computing Paradigms Website: https://international-workshop-ffout1ebt.vercel.app/			A304

13th International Conference on Big Data and AI (BDA2025)
July 18-20, 2025: Main Conference Program
(Venue: Ramanujan Block, IIIT-Bangalore)

18 July 2025 (Friday)

Time		Room
08.30 - 09.00	Registration (desk will be open throughout till afternoon)	Ramanujan block Reception
09.00 - 09.10	<u>Welcome and formal inauguration of the BDA 2025 Conference</u> 1. Ceremonial Lamp Lighting 2. Welcome address by the General Chair, Prof. Srinath Srinivasa 3. Opening remarks by IIIT-B Director, Prof. Debabrata Das 4. Brief note from honorary chairs highlighting the vision, legacy, and future goals of BDA	R-103
09.10 - 09.30	<u>Joint Statement from the BDA Conference</u> 1. Overview of the conference structure and statistics by Prof. Krishna Reddy (IIIT Hyderabad) 2. Summary of accepted papers and program themes by Dr. Rajeev Gupta (Microsoft, India) / Dr. Deepak Padmanabhan (Queen's University Belfast, UK) 3. Workshop highlights: key sessions and participation by Dr. Navneet Goyal (BITS Pilani) 4. Tutorial summaries and engagement metrics by Dr. Sudarsun Santhiappan (IIT madras) 5. Industry track summary: talks, panels, and collaborations, by Dr. Atul Kumar (IBM, India)	R-103
09.30 - 10.30	Keynote talk by Prof. Yogesh Simmhan, IISc, Bengaluru Bio: Yogesh Simmhan is an Associate Professor in Computational and Data Sciences at the Indian Institute of Science, Bangalore. His research focuses on scalable software, algorithms, and applications for distributed systems, including Cloud and Edge Computing, Temporal Graph Processing, and Scalable Machine Learning for Big Data and IoT. He has published over 100 peer-reviewed papers and received several awards, such as the Swarna Jayanti Fellowship (2019) and IEEE TCSC Award for Excellence in Scalable Computing (2020). Dr. Simmhan holds a Ph.D. from Indiana University and is a Distinguished Member of ACM and the IEEE Computer Society. He serves on the ACM India Executive Council and as an Associate Editor for leading journals. Title: AI on the Edge: Challenges and Opportunities Abstract: Edge accelerators have exponentially grown in their compute capabilities, forming a first-class computing fabric that extend to the cloud as well. This is of particular interest given the growing use of ML workloads for IoT data generated in the field. In this talk, we will examine the opportunities and challenges of modelling and optimizing edge accelerator platforms such as Nvidia Jetsons for ML workloads. It will explore our experiences with both single edge devices with heterogeneous accelerators,	R-103

	and distributed clusters of edge devices and cloud, to support diverse workloads from UAVs to federated learning. We will examine methods that help enhance performance metrics such as training throughput, inference latency and energy efficiency under constrained conditions. We will also discuss future research challenges of edge and cloud resources in the LLM era with agentic AI			
10.30 - 11.00	TEA BREAK			Lobby
11.00 - 12.30	Paper Presentation Session-1 (R103)	Paper Presentation Session-2 (R101)		
12.45 - 14.00	LUNCH BREAK			Ramanujan block basement
14:00 - 15:00	Invited talk by Dr. Prasad Deshpande, Databricks, Bengaluru Bio: Prasad Deshpande is a Senior Staff Software Engineer at Databricks based in Bengaluru, India, joining the company in May 2023. He has extensive expertise in data management research, development, strategy, and technical leadership. Prasad holds a B.Tech. in Computer Science & Engineering from the Indian Institute of Technology Bombay (1990-1994) and completed his M.S. and Ph.D. in Computer Sciences with a focus on Database Systems and OLAP at the University of Wisconsin, Madison (1994-1999). He has received notable honors including the Best People Manager Award at IBM India/SA, membership in the IBM Academy of Technology, and being named an ACM Distinguished Scientist. His career includes significant roles at IBM, Google, and other tech firms before joining Databricks Title: Fueling Enterprise AI through robust Data Ingestion Abstract: Companies are rapidly adopting AI solutions like Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG) to enhance employee productivity, business efficiency, and customer experience. However, generic pre-trained models often underperform compared to models fine-tuned or augmented with specific enterprise data. To unlock the full potential of AI, ingesting data from various applications and databases into a centralized Lakehouse is crucial. This talk will explore the challenges of building robust data pipelines for this purpose. We'll delve into the complexities of handling diverse APIs, incremental ingestion, application behavior, rate limits, and data access controls, with specific considerations for unstructured data. We'll also discuss strategies to overcome these hurdles and establish a foundation for scalable and efficient AI deployments within an organization.			R-103
15.00 - 15.45	Short Paper Presentation Session-A (4 papers) (R102)	Tutorial-1* (R103)	Sponsored Tutorial** (R105)	
15.45 - 16.15	TEA BREAK			Lobby
16.15 - 17.45	Short Paper Pres. Session-A (cont.)	<i>Tutorial 1 (cont.)</i>	<i>Sponsored Tutorial (cont.)</i>	
Tutorial-1*	Big Graph Mining with LLMs: Techniques, Architecture, and Applications explores how large language models (LLMs) can advance traditional graph mining tasks such as node classification, link prediction, and community detection, particularly on massive graphs. While conventional methods struggle with scalability and adaptability, LLMs bring new capabilities through semantic reasoning, pattern recognition, and code generation. Emerging research shows that LLMs can solve simple graph problems			R-103

	<i>framed in natural language but often falter on complex or large-scale graphs. These limitations are being addressed by prompting strategies that guide the model through structured reasoning or task decomposition. Some approaches also leverage the model's ability to generate executable code, enabling interpretable and generalizable solutions without heavy supervision. This tutorial combines conceptual insights with a hands-on session to help participants understand and apply LLMs in graph mining at scale.</i> <u><i>Speakers.</i></u> <i>Dr. Apurba Das</i> Assistant Professor in the Department of Computer Science and Information Systems at BITS Pilani, Hyderabad Campus. He holds a B.E. in Computer Science from BESU Shibpur, an M.Tech from the Indian Statistical Institute, Kolkata, and a Ph.D. in Computer Engineering from Iowa State University. His research focuses on graph algorithms, dynamic and streaming graphs, graph-based machine learning, cybersecurity, and large-scale graph analytics. <i>Dr. Prajna Devi Upadhyay.</i> Assistant Professor in the Department of Computer Science and Information Systems at BITS Pilani Hyderabad Campus, India. She earned her Ph.D. from IIT Delhi and was previously a postdoctoral researcher at Inria Saclay, France. Her research focuses on information extraction, retrieval, and knowledge graphs.	
Sponsored Tutorial**	<i>Advanced machine learning-driven geospatial data analysis can significantly aid Sustainable Development Goals (SDGs), but challenges like limited data availability and lack of interoperability hinder its full potential. The National Geospatial Policy 2022 addresses this by proposing a centralized National Geospatial Data Registry (NGDR) and a Unified Geospatial Interface (UGI) for standardized data access and exchange. The Integrated Geospatial Data-sharing Interface (GDI) advances this vision by providing a standardized platform that integrates diverse spatial data sources and tools, promoting seamless data sharing, interoperability, and efficient access. GDI serves as a critical Digital Public Infrastructure with controlled access, supporting innovation and consistent data standards. This session will showcase GDI through live demos, sandbox features, and real-world use cases, all developed in-house.</i> <u><i>Speakers:</i></u> <i>Mr. Joel Joy.</i> Data Scientist I passionate about AI, with expertise in Applied Machine Learning and Deep Learning. Focused on solving real-world problems and advancing innovation in AI and data science. <i>Dr. Linda Theres.</i> Senior Software Engineer - Geospatial with over a decade of experience in GIS and remote sensing. Specializes in machine learning for urban studies and spatial analytics across agriculture, forestry, urban planning, and disaster management. Published researcher. <i>Dr. Jyotirmoy Dutta.</i> Director and Principal Scientist at the Centre of Data for Public Good, IISc Bengaluru. Over 18 years of experience in academia, industry, and research, leading major government-funded projects of national importance.	R-105
Participants may leave after their sessions. Later sessions are reserved for committee members only.		
19:00 - 20:00	BDA Steering Committee meeting	R-308

20.00 - 22.30	DINNER <i>Only for Steering & Organizing Committee members and other invited guests.</i>	Purple Pitch, Inventree Hotel
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Regular/Short paper presentation detailed schedule

Room R-103		
Regular Paper Session-1 <i>(Language Understanding and Interactive AI)</i> Session chairs: Dr. Rajeev Gupta and Dr. Tulika Saha		
<i>Paper-ID</i>	<i>Title</i>	<i>Authors</i>
28	Long-context Non-factoid Question Answering in Indic Languages	Ritwik Mishra, Rajiv Ratn Shah; Ponnurangam Kumaraguru
65	CommuteQA: Visual Question Answering for Bus Transport	Anwar Shaikh, Prakrit Garg; Mahisha Ramesh; Ritwik Kashyap; Raghava Mutharaju; Rajiv Ratn Shah
89	IndLaw-QA: Fine-tuned LLMs with RAG for Indian Legal QA	Aayush Badoni; Divyansh Anand Singh; Kapil Vuthoo; Shivansh Singh; Sonia Khetarpaul; L Venkat Subramaniam
5	Generative AI-Driven Continuous Monitoring and Management of Diabetes (leans toward interactive generative AI)	Snehali Biswas; Aman Sagar; Suchi Kumari; Abhishek Soni
Room R-101		
Regular Paper Session-2 <i>(Learning Paradigms and Optimizations)</i> Session chairs: Dr. Deepak Padmanabhan and Dr. Uttam Kumar		
39	Enhancing Credit Risk Prediction Using Stacked Ensemble and Quantum Approaches on PySpark	Aditya Bhardwaj; Robin Chauhan; Ajay Kumar
53	Label, Learn, Enhance: Multimodal Large Language Models-Assisted Annotation and Optimized Classifier Training for Retail Outlet Image Quality Assessment	Prithviraj Naik
22	Fusion-Based Reduced Variation Representations for Acoustic Scene Classification	Akansha Tyagi; Padmanabhan Rajan
75	A Two-Level Indexing Scheme for Extracting Frequent Patterns with GPUs from Symbolic Sequence Data	P Shiridi Kumar, Uday Kiran Rage; Krishna Reddy Polepalli
106	Robust Spoken Language Identification for Indian Languages Using Phonetic Representations	Shubham Sharma; Shilpa Chandra; Padmanabhan Rajan
Room R-102		
Short Paper Session-A <i>(Deep Learning Architecture and Adaptations)</i>		
25	Forecasting Indian Stock Market Prices Using Deep Learning Models	Rajesh Kumar; Suchi Kumari; Kartikeya Pydi; Laxmi Raavi
43	Transformers vs CNNs in Wheat Disease Prediction: Performance Evaluation and Prescriptive Insights	Falisha Umaiza; Abdul Omeez; Manali M; Sambhavi T; Purvika GP
62	Deep Learning Framework Using CNN-BiLSTM for Anomaly Detection in WBANs	Shreea Bose; Granth Bagadia; Arundhati Bajaj; Chittaranjan Hota
71	Real-Time Plant Disease Classification Using EfficientNetB3: A Deep Learning Approach for Agricultural Productivity	Siva Rama Kumar D

13th International Conference on Big Data and AI (BDA2025)

July 18-20, 2025: Main Conference Program

(Venue: Ramanujan Block, IIIT-Bangalore)

19 July 2025 (Saturday)

Time		Room
09.15 - 09.30	<i>Welcome and Today's highlight</i> (by Prof. Srinath & Dr. Rajeev)	R103
09.30 - 10.30	<i>Keynote talk by Prof. Biplav Srivastava, University of South Carolina</i> Bio. <i>Biplav Srivastava is a professor of computer science at the AI Institute at the University of South Carolina. Previously, he was at IBM for nearly two decades in the roles of a Research Scientist, Distinguished Data Scientist and Master Inventor. Biplav is an ACM Distinguished Scientist, AAAI Senior Member, IEEE Senior Member and AAAS Leshner Fellow for Public Engagement on AI (2020-2021). Dr. Srivastava is interested in enabling people to make rational decisions despite real world complexities of poor data, changing goals and limited resources by augmenting their cognitive limitations with technology. He is exploring new approaches for goal-oriented, ethical, human-machine collaboration via natural interfaces using domain and user models, learning, and planning. He is a co-inventor of over 50 patents and co-author of over 150 peer-reviewed papers.</i> Title. <i>Towards Sustainable Communities with Big, Open, Data and Group Recommendations Promoting User Trust</i> Abstract. <i>Communities around the world are facing challenges due to their growing population and shrinking resources. The inter-disciplinary field of Smart City, also known as computational sustainability, has been exploring data-driven solutions for societal challenges for decades demonstrating many promising prototypes. Moreover, the past decade has been a great time for computing due to the rapid advances and availability in data, compute resources and analytical methods like Artificial Intelligence (AI) and Large Language Models (LLMs). However, the reality is that we are still far from tackling pressing societal problems involving human sustainability and wellbeing, including nutrition, exercises, collaboration, water, traffic. Why? In most cases, after promising initial prototypes, progress appears stalled in terms of realized improvement at scale and wider solution adoption. The barriers for this have been structural governance issues as well as technology limitations. In this talk, we will focus on the technological aspects and how one may overcome persistent barriers. First, we will discuss a shift in perspective from one-</i>	R103

	<i>off data-driven problem solving to incremental solution evolution based on increasing complexity considerations of data, methods and adoption based on trustworthy human-AI interaction. Then, we will use the specific instances of group recommendation for the AI method (that suggests groups, aka sets, bundles, of items to users based optimizing a combination of short and long term objectives over a time horizon), and robustness and fairness for trust. We will illustrate that more trustworthy, effective, solutions could be built via early case studies in collaboration (human-human teaming) and behavioral adherence (for nutrition in meals and physical activity) using domain-specific open, often big, data. The talk will also demonstrate the ULTRA team recommendation tool and the ARC tool for Blackbox AI assessment.</i>		
10.30 - 11.00	TEA BREAK		Lobby
10.30 - 12.45	Paper presentation Session-3 (R103)	Paper presentation Session-4 (R101)	
12.45 - 14.00	LUNCH BREAK		Ramanujan block basement
14.00 - 15.00	Keynote talk by Dr. Kalika Bali, Microsoft Research India Bio. Dr. Kalika Bali is a Senior Principal Researcher at Microsoft Research India, working at the intersection of AI, NLP, speech, and inclusive technology. Her research focuses on developing multilingual tools for low-resource languages, aiming to make technology accessible to diverse and underrepresented communities. She is part of Project VeLLM—an initiative to build inclusive large language models that work across languages and cultures—and also explores the societal impact of generative AI, with a particular focus on gender and bias in technology. A strong advocate for speech and language technologies for Indian languages, she believes such innovations can transform access and opportunity for millions. Title. Multilingual and Multicultural AI: Towards Inclusive and Responsible Intelligence Abstract. This talk delves into the principles, challenges, and opportunities involved in developing AI systems that are genuinely multilingual and culturally aware. As AI technologies increasingly influence global interactions, addressing the linguistic and cultural biases embedded in data, models, and evaluation frameworks becomes crucial. By drawing on examples from projects like Sanmati, Kahaani, and Pariksha, the talk underscores how participatory design and community-centric approaches can reveal nuanced biases and promote inclusive development. Additionally, it examines the role of synthetic datasets such as Updesh and benchmarking efforts like Samiksha in assessing AI across diverse languages and		R103

	<i>contexts. The session will highlight the significance of culturally contextual AI and the necessity of governance frameworks that reflect the lived realities of users in the Global South.</i>			
15.00 - 17.45	Industry track (R103)	Short Paper Presentation Session-B (R101)	Tutorial-2** (R105)	
15.00 - 15.45	<i>Invited Talk 1: "Data: The AI Enabler - A Practitioner's Perspective" by Dr. Sameep Mehta, IBM Research.</i>	<i>Invited talk⁺ by Dr. Manas Gaur, University of Maryland Baltimore County</i>	<i>Tutorial 2</i>	
15.45 - 16.00	TEA BREAK			Lobby
16.00 - 16.45	<i>Invited Talk 2: "Cloud Database Systems: Challenges and Opportunities" by Dr. Karthik Ramachandra, Microsoft</i>	<i>Short Paper Presentation (cont.)</i>	<i>Tutorial 2 (cont.)</i>	
16:45 - 17.45	<i>Industry Panel Discussion – Dr. Sameep Mehta, Dr. Karthik Ramachandra and Dr. Dr Kedar Kulkarni (Reliance Industries)</i> <i>Moderator: Dr. Atul Kumar, IBM Research</i>	<i>(4 papers – 15 min each)</i>	<i>Tutorial 2 (cont.)</i>	
<i>Invited talk⁺</i>	Speaker bio. <i>Dr. Manas Gaur is an Assistant Professor at the University of Maryland Baltimore County (UMBC) in the Department of Computer Science, where he directs the Knowledge-infused AI and Inference Lab (KAI²-Lab). Recognized as an AAAI New Faculty Award recipient in 2023, Dr. Gaur has established himself as a pioneering researcher in Neurosymbolic Artificial Intelligence. Dr. Gaur is also authoring an upcoming book on "Knowledge-Infused Learning" with Cambridge University Press, further solidifying his position as a leading voice in trustworthy and explainable artificial intelligence. Before joining academia, Dr. Gaur gained valuable industry experience as a Senior AI Research Scientist at Samsung Research America's AI Center and served as a Visiting Researcher at the prestigious Alan Turing Institute in the UK. He earned his PhD from the Artificial Intelligence Institute at the University of South Carolina in 2022, where Dr. Amit Sheth advised him after completing his bachelor's and master's degrees at Delhi Technological University in India. Dr. Gaur's research excellence has been supported by multiple prestigious fellowships, including the Eric and Wendy Schmidt Data Science Fellowship and Dataminr AI for Social Good Fellowship, and his work has earned best paper awards from</i>			R101

	IEEE Internet Computing and IEEE Intelligent Systems. He currently serves as Co-Chair of the International Semantic Web Conference (ISWC), Associate Editor of ACM Transactions on Computing for Health, Organizer of Workshop on Knowledge-infused Learning, and Advisor to multiple startups in India and the US. Title. <i>Neurosymbolic Generative AI for Social Good</i> Abstract. <i>Contemporary generative AI systems demonstrate remarkable capabilities across creative and technical domains. They compose symphonies, debug complex software, and engage in sophisticated philosophical discourse. Yet these same systems exhibit significant limitations in humanity's most pressing applications. They struggle with personalized mental health interventions, environmental crisis prediction, and accessible trustworthy legal services for populations. This performance disparity illuminates a critical knowledge gap in current AI development. Recent research has identified a fundamental "discrepancy between a model's internal understanding and the knowledge required for coherent, personalized conversations" in multi-turn dialogues. While these models excel in well-documented domains with abundant training data, they lack the specialized knowledge representations and contextual grounding required for high-stakes social applications. The resulting systems often produce outputs that are misaligned with user needs, potentially unsafe for vulnerable populations, and prone to reproducing training data rather than adapting to sensitive contexts. This talk examines the fundamental challenges underlying this knowledge gap and explores Neurosymbolic AI as a method for developing grounded and instructible AI systems that can effectively serve society's critical needs.</i>	
Tutorial 2**	From PDF to FAIR Knowledge: Extracting Scientific Knowledge from Research Articles to Build an Open Research Knowledge Graph. Abstract. <i>Due to limited structure, it is challenging for machines to access and process scientific knowledge. Scientific knowledge graphs have emerged as a potential solution for this issue. However, building such a knowledge graph demands significant manual effort and expertise in the respective domains, making the process time-consuming and cumbersome. Despite advancements in digital accessibility to scientific knowledge over recent decades, scholarly communication is still based on documents and managed by document repositories. The Open Research Knowledge Graph (ORKG, https://orkg.org/) as a FAIR Supporting Service, tackles the current challenge by offering research communities an easily accessible and sustainably managed infrastructure. It serves as a framework</i>	R105

	for creating, curating, publishing, and utilizing FAIR scientific knowledge and aims to shape a future scholarly publishing and communication where the contents of scholarly articles are FAIR research data. ORKG provides libraries for Python and R that enable loading or producing ORKG content in computational environments. Additionally, ORKG features various generic services that make use of FAIR scientific knowledge. One of the prominent service is the ORKG comparison, which automatically compares research contributions of selected articles. Other services include knowledge visualization, thematic reviews, and observatories as virtual spaces for knowledge organization. <u>Speakers.</u> • Prof. Dr. Sören Auer, Director TIB, Head of Research Group Data Science and Digital Libraries • Dr. Sanju Tiwari, Professor, Sharda University & Researcher at TIB Hannover, Germany • Dr. Fidel Jiomkong Azanzi, Department of Computer Science, University of Yaounde • Dr. Anna-Lena Lorenz, TIB Hannover Germany • Dr. Kheir Eddine Farfar, TIB Hannover Germany • Dr. Stocker Markus, TIB Hannover Germany • Dr. Jennifer D'souza, TIB Hannover Germany	
18:30 - 21.30	BANQUET DINNER	

Regular/Short paper presentation detailed schedule

R103		
Regular Paper Session-3 (Saturday 19 July) (ML Frameworks and System-Level Intelligence)		
Paper-ID	Title	Authors
79	End-to-End Modular Intelligence through Machine Learning	Ravikant Ravikant, Abhishek Sengupta; Ravi Tanwar; Vijay Pandey; Jayit Saha; Ashwini Chandrashekharaiiah
84	Towards Building a Custom Foundation Model for Crop Yield Estimation	Deeksha Aggarwal; Sai ShrutiPrakhya; Uttam Kumar
86	CycleAware: A Machine Learning Framework for Menstrual Phase Prediction and Athlete Performance Tracking	Shreya Srikant; Shreya Naveen; Aditya Verulkar; Shrujan V; Chaitra N
92	SiteSense: Optimizing Restaurant Site Selection using a Comprehensive Data-Driven Framework	Anvitha Swaroop; Kritika Prasad; Sonia Khetarpaul
R101		

Regular Paper Session-4 (Saturday 19 July) (Deep Learning Architectures and Model Design)		
90	Enhancing Ocular Disease Diagnosis: An Attention-Guided CNN for Diabetic Retinopathy Detection Using Vision Transformer-Derived Channel Augmentation	Bhargava BS; Sathiya Narayanan
110	Spatial Attention-Enhanced Dual-Path Skip Connection Siamese Network for Temporal Land Cover Change Detection using SAR	Himanshi Srivastava, Uttam Kumar; Sai Shruti Prakhya
R101		
Short Paper Session-B (Saturday 19 July) (Domain-Specific AI Models)		
46	Agri Buddy: From Queries to Crops with a Context-Aware Agricultural Chatbot	Prasenjit Betal
60	Machine learning based wind and turbulence prediction at urban-scale for drone operations	Mandar Tabib
81	Structured Definitions and Segmentations for Legal Reasoning in LLMs: A Study on Indian Legal Data	Mann Khatri, Mirza Yusuf; Rajiv Ratn Shah; Ponnurangam Kumaraguru
91	AgriLLM-India: Empowering Indian Farmers through Domain-Specific Large Language Models for Agricultural Knowledge and Decision Support	Vijay Kumar Damera; Deepthi Kalavala

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July 18-20, 2025: Main Conference Program (Venue: Ramanujan Block, IIIT-Bangalore)

20 July 2025 (Sunday)

Time			Room
09.15 - 09.30	<i>Welcome and Today's highlight</i>	Prof. Srinath & Prof. Deepak P	R103
09.30 - 10.30	Keynote talk by Mr. K. Anvar Sadath <i>Chief Executive Officer, KITE</i> Bio. <i>CEO of Kerala Infrastructure and Technology for Education (KITE), Government of Kerala. With degrees in MCA, MBA, and LLB, he has led major digital initiatives like IT@School, Akshaya, and the UNDP's eKrishi project. He was the first Indian to receive the International Contributions Award from AECT (USA) in 2018 for his work in digital education. Author of 8 publications, including pioneering Malayalam works on nanotechnology and cyber law, and a regular IT columnist since 1999. He has served on national and state-level academic and advisory bodies and received multiple awards for contributions to science, education, and public administration. As CEO of KITE since 2016, he has spearheaded transformative projects: 45,000 Hi-Tech Classrooms, 9000 robotic labs, Little KITES clubs, Samagra portal, and the First Bell digital classes, making Kerala's school education fully FOSS-based and digitally inclusive.</i> Title. <i>Are We Ready? Embracing AI in Schools – Insights from Kerala's KITE Model</i> Abstract. <i>As Artificial Intelligence (AI) rapidly enters the education sector, critical questions emerge about its readiness, ethics, and alignment with pedagogical values. While many education systems embrace AI tools like ChatGPT or Gemini, such platforms often operate as opaque systems, raising concerns about algorithmic bias, misinformation, data privacy, and loss of teacher agency. In this context, the question "Are we ready?" becomes more relevant than ever. This keynote explores how Kerala, through its public agency KITE (Kerala Infrastructure and Technology for Education), offers a pioneering and responsible model for AI in school education. With over 80,000 teachers trained in ethical AI usage and</i>		R103

	<i>critical understanding, and AI introduced into the curriculum from Class 7 onward, the approach is rooted in pedagogy, equity, and transparency. The introduction of Robotics as a subject in Class 10 and the use of Free and Open-Source Software (FOSS) in over 15,000 schools further strengthen this model. Kerala's development of its own curriculum-aligned AI engine, Samagra Plus AI, using Retrieval-Augmented Generation (RAG) and curated local datasets, demonstrates how AI can serve public education goals. This keynote highlights the readiness Kerala has built—not just technologically, but ethically and pedagogically—to embrace AI in schools.</i>		
10.30 - 11.00	TEA BREAK		Lobby
11.00 - 12.00	Short Paper presentation Session-C (R103)	Short Paper presentation Session-D (R101)	
12:00 - 12:45	Closing ceremony (Prof. Srinath and Prof. Krishna Reddy/Other steering committee members)		R103
12.45-14.00	LUNCH BREAK		

Regular/Short paper presentation detailed schedule

R103		
Short Paper Session-C (Sunday 20 July) (Fine-Tuning and Generative Modeling Techniques)		
Paper-ID	Title	Authors
72	SLM4Offer: Personalized Marketing Offer Generation Using Contrastive Learning Based Fine-Tuning	Vedasamhitha Challapalli; Piyush Pratap Singh; Konduru Venkat Sai; Rupesh Prasad; Arvind Maurya; Atul Singh
73	Cross-City Next POI Prediction Using a Generative Causal Method	Soma Bandyopadhyay; Sudeshna Sarkar
R101		
Short Paper Session-B (Sunday 20 July)		
74	Sadrusha: An Administrative Data Twin Framework for SDG-Aligned Decision Making	Apurva Kulkarni; Riya Patidar; Srinath Srinivasa
83	Extensible Test Automation for Functional Testing of Low-Code ETL Workflows	Afnan Ahmad; Preetodeep Dev; Arup Kumar Chattopadhyay; Meenakshi D'Souza
104	A Spark-Based Pipeline for Real-time Multi-faceted Analysis of Public Sentiment during the Indian Recession	Saravanan Selvam; Deshana Vikas Shah

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