



Learn Beyond

KPR Institute of Engineering and Technology

(Autonomous, NAAC "A")

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AM002**NBA Accredited**
(CSE, ECE, EEE,
MECH, CIVIL)**TWO WEEKS FDP ON MACHINE LEARNING IN THE AGE OF AI: ALGORITHMS, MODELS, AND BEYOND**

Event No	AM002
Organizing Department	Artificial Intelligence and Machine Learning
Associate Dept. NSC	Artificial Intelligence and Machine Learning
Date	21/08/2023 to 01/09/2023 (12 Days)
Time	10:00 AM to 11:00 AM
Event Type	FDP
Event Level	Dept. Level
Venue	Zoom Platform
Meeting Medium	
Meeting Link	https://us06web.zoom.us/j/82403144678?pwd=WU1Vd2xKMExidEJlbEUrUXpOSnNtQT09
Registration Link	https://forms.gle/VPZrx2vB3fWr4vdm6
Total Participants	128
Industry Personnel	2
Faculty - Internal	35
Faculty - External	61
Students - Internal	30

Related SDG



Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Tathagat Banerjee	Data Analyst	Societe Generale	banerjeetathagat@gmail.com	xxxxxxxxxx
2	Resource Person	Dr Ram Kumar Gurusamy	Director of Administration, Public and Research Affairs	One World Hillluck Institution for Nature	ramgurusamy@gmail.com	xxxxxxxxxx
3	Resource Person	Mr Sarveshwaran	Specialist-Data Sciences	LTIMindtree	sarvesh9111@gmail.com	xxxxxxxxxx
4	Resource Person	Dr Mangalraj	Assoc Professor	GITAM Univ, Bnagalore	mpoobala@gitam.edu	xxxxxxxxxx
5	Resource Person	Mr Navaneeth Malingan	Founder & AI Lead	Nunnari Labs, Coimbatore	navaneeth@nunnarilabs.com	xxxxxxxxxx
6	Resource Person	Dr Sibi Chakkaravarthy	Assoc Professor	VIT-AP University	chakkaravarthy.sibi@vitap.ac.in	xxxxxxxxxx
7	Resource Person	Dr Meenalosini Vimal Cruz	Assistant Professor	Georgia Southern University, USA	mvimalcruz@georgiasouthern.edu	xxxxxxxxxx
8	Resource Person	Dr Rathinaraja Jeyaraj	Post-doctoral Researcher	Kyungpook National University	jrathinaraja@gmail.com	xxxxxxxxxx
9	Resource Person	Dr D Sumathi	Associate Professor	VIT-AP University	sumathi.d@vitap.ac.in	xxxxxxxxxx

10	Resource Person	Dr P Mercy Nesa Rani	Assistant Professor	Central Agricultural University, Umiam Meghalaya	mercyranip@gmail.com	xxxxxxxxxx
11	Resource Person	Dr Sathya K	Assistant Professor - Senior Grade	VIT University	sathya.k@vit.ac.in	xxxxxxxxxx
12	Resource Person	Dr J Vijaya	Assistant Professor	DSPM IIIT-Naya Raipur	vijaya@iiitnr.edu.in	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Nandhagopal S	Co-convenor
2	Karthikeyan S	Convenor

Outcome

Participants have gained a deep understanding of machine learning concepts, algorithms, and techniques. They are familiar with both the theoretical foundations and practical applications of machine learning. Have acquired practical skills in machine learning, including data preprocessing, model selection and training, evaluation, and deployment. Hands-on experience with tools and frameworks like Power BI, TensorFlow, PyTorch, scikit-learn, or others can be a part of this skill development. Provides opportunities for networking with peers and experts in the field. Participants can establish connections that may lead to collaborations or access to resources. Research Opportunities in ML Domain.

Event Summary

Session -1 Resource Person: Mr. Tathagat Banerjee , Cyber security Data Analyst, Societe Generale **Topic:** Large Language Models with Attention
 The session expert handled 'Large Language Models with Attention' session provided valuable insights into the capabilities and challenges of LLMs. Attendees left with a deeper understanding of the significance of these models in NLP and a sense of responsibility to address ethical concerns and contribute to advancements in the field. This session served as a platform for collaboration and knowledge-sharing, fostering a stronger NLP community dedicated to harnessing the potential of LLMs for positive societal impact.

Session -2 Resource Person: Dr. Ram Kumar Gurusamy, Director of Administration, Public and Research Affairs One World Hill Luck Institution for Nature **Topic:** Data Research and its Implications
 The session expert provided a comprehensive overview of the field of data research and its far-reaching effects. Attendees left with a deeper understanding of the methodologies, ethical considerations, and societal impacts associated with data-driven research. The session encouraged responsible data practices and collaboration among researchers to address complex challenges in our data-centric world.

Session -3 Resource Person: Mr. Sarveshwaran , Specialist-Data Sciences, LT Mind Tree **Topic:** Introduction to Gen AI
 The expert provided a detail session about Generative AI, its applications, and its ethical considerations. Attendees left with a better understanding of how Gen AI is shaping various industries and the need for responsible usage to harness its creative and transformative potential. The session fostered a sense of curiosity and responsibility regarding the future of Generative AI.

Session -4 Resource Person: Dr Mangalraj , Associate Professor, GITAM University-Bangalore **Topic:** Deep Learning for Remote Sensing Applications
 The 'Deep Learning for Remote Sensing Applications' session, expertly handled by Mangalraj, provided valuable insights into the powerful synergy between deep learning and remote sensing. Attendees left with a deeper understanding of the applications, challenges, and ethical considerations surrounding this exciting intersection of technologies. The session inspired continued exploration and innovation in the field of remote sensing and deep learning.

Session -5 Resource Person: Mr. Navaneeth Malingan Founder & AI Lead at Nunnari Labs **Topic:** Building LLM-Powered Applications
 The 'Building LLM-Powered Applications' session provided attendees with a comprehensive understanding of how to leverage Large Language Models for practical applications. The combination of insights into LLMs' capabilities, practical demonstrations, ethical considerations, and best practices left participants inspired and ready to harness the power of LLMs in their own projects. The session contributed to the growing community of developers exploring the possibilities of LLMs in NLP and AI.


Session -6 Resource Person: Dr. Sibi Chakkaravarthy, Associate Professor, VIT-AP **Topic:** Building LLM-Powered Applications
 The session expert provide holistic understanding of how to leverage Large Language Models for practical applications. LLMs are versatile tools with wide-ranging applications in NLP, offering solutions for tasks like chatbots and content generation. Developers were empowered with practical insights, tools, and resources to initiate LLM-powered projects effectively. Attendees gained knowledge of best practices, ethical considerations, and strategies to address challenges and limitations.

Session -7 Resource Person: Dr. Meenalosini Vimal Cruz, Asst. Professor, Georgia Southern University, USA **Topic:** Insights on the Brain Computer Interface Research
 The 'Brain-Computer Interface Research' session, skillfully handled by Dr. Meenalosini Vimal Cruz, provided a comprehensive overview of the field, its challenges, and its boundless potential. Attendees left the session inspired and better informed about the role of BCI technology in improving lives and driving innovation. The session served as a catalyst for collaboration and ethical research practices in the dynamic realm of BCI research.

Session -8 Resource Person: Dr. Sumathi D, VIT Univeristy AP. **Topic:** Deep Learning for Computer Vision
 The 'Deep Learning for Computer Vision' session, expertly handled by Dr. Sumathi, provided a comprehensive overview of the intersection of deep learning and computer vision. Attendees left the session with a deep understanding of the field's significance, its practical applications, and the ethical considerations that underpin it. The session served as a catalyst for further exploration and responsible research in the dynamic domain of computer vision.

Session -9 Resource Person: Dr. Rathinaraja Jeyaraj, Post-doctoral Researcher, Kyungpook National

University. **Topic:** Explainable AI The 'Explainable AI' session, expertly handled by Rathina Raja, provided participants with a comprehensive understanding of the importance and techniques of XAI. Attendees left the session equipped with the knowledge and tools needed to foster transparency and accountability in AI systems. The session served as a catalyst for responsible AI development and ethical decision-making, contributing to the broader conversation on the future of AI and machine learning. **Session -10 Resource Person:** Dr.P. Mercy Nesa Rani, Assistant Professor, Central Agricultural University, Umiam Meghalaya **Topic:** Quantum machine learning The 'Quantum Machine Learning' session provided a comprehensive overview of the emerging field, its foundations, and practical applications. Attendees left the session with a deeper understanding of the transformative potential of quantum computing in machine learning. The session served as a catalyst for exploration and research in the dynamic realm of Quantum Machine Learning, inspiring future advancements and responsible AI development. **Session-11 Resource Person:** Dr. Sathya K, Assistant Professor - Senior Grade, Vellore Institute of Technology **Topic:** Interaction Reports-Business Intelligence tools The 'Interaction Reports - Business Intelligence Tools' session provided participants with valuable insights and hands-on experience in the realm of BI tools. Attendees left the session equipped with a deeper understanding of how these tools can empower organizations to make data-driven decisions. The session fostered collaboration and knowledge sharing among professionals in the field of Business Intelligence tools like Tableau, Microsoft Power BI, SAP Business Objects and ClicData. **Session -12 Resource Person:** Dr. J. Vijaya, Assistant Professor, DSPM IIIT-Naya Raipur. **Topic:** Algorithm Optimization using Fuzzy Clustering The 'Algorithm Optimization using Fuzzy Clustering' session, skillfully moderated by Dr. J. Vijaya, provided attendees with a comprehensive and practical understanding of the potential of fuzzy clustering in algorithm optimization. It served as a catalyst for further research, collaboration, and innovation in the field, inspiring participants to explore the transformative capabilities of fuzzy clustering in enhancing algorithm performance and adaptability. The session fostered a community of professionals and researchers dedicated to advancing the application of fuzzy clustering in algorithm optimization.















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Department of CSE (Artificial Intelligence & Machine Learning)

Organizes

Two Weeks Faculty Development Program on
"Machine Learning in the age of AI: Algorithms, Models & Beyond"
(21.08.2023 to 01.09.2023)

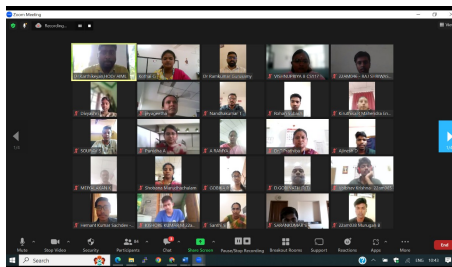
 Mr. Tathagat Banerjee Senior Software Engineer Cognizant Technology Solutions 29.08.2023 - 30.08.2023 Large Language Models with AI/ML	 Dr. Ram Kumar Durusamy Associate Professor Anna University 29.08.2023 - 30.08.2023 Data Research and its Implications	 Mr. Sarveshwaran Senior Software Engineer Cognizant Technology Solutions 29.08.2023 - 30.08.2023 Introduction to Gen AI	 Dr. Mangalaj Associate Professor Anna University 29.08.2023 - 30.08.2023 Deep Learning for Remote Sensing Applications
 Mr. Neenuveth Maligan Senior Software Engineer Cognizant Technology Solutions 29.08.2023 - 30.08.2023 Building LLM-Powered Applications	 Dr. Sibi Chakkaravarthy Associate Professor Anna University 29.08.2023 - 30.08.2023 AI/ML	 Dr. Meenalathi Vimala Chuz Associate Professor Anna University 29.08.2023 - 30.08.2023 Insights on the State of Computer Vision Research	 Dr. Sumathi D Associate Professor Anna University 29.08.2023 - 30.08.2023 Deep Learning for Computer Vision
 Dr. Rathinajayal Associate Professor Anna University 29.08.2023 - 30.08.2023 Explainable AI	 Dr. P. Mercy Nesa Rani Assistant Professor Central Agricultural University Umiam Meghalaya 29.08.2023 - 30.08.2023 Quantum Machine Learning	 Dr. Sathya K Assistant Professor - Senior Grade Vellore Institute of Technology 29.08.2023 - 30.08.2023 Interaction Reports - Business Intelligence tools	 Dr. J. Vijaya Assistant Professor DSPM IIIT-Naya Raipur 29.08.2023 - 30.08.2023 Algorithm Optimization using Fuzzy Clustering

Registration Link: <https://forms.gle/F7H6ZPF2HQPFB7>
 Registration Fee: Rs. 300

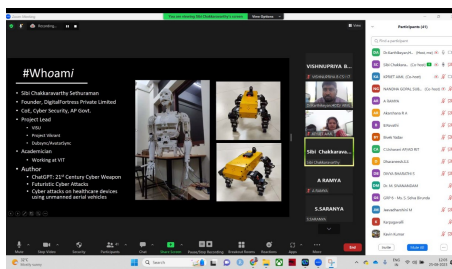
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Contact: Dr. S. Nandhagopal, AP (501)
 97876 77167

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