KPR Institute of Engineering and Technology

Learn Beyond

(Autonomous, NAAC "A")

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MI001

NBA Accredited
(CSE, ECE, EEE, MECH, CIVIL)

SAMPARK - NEURAL NETWORKS

Event No	MI001
Organizing Department	Mechatronics Engineering
**Associate Dept.	NSC**	Mechatronics Engineering
Date	20/12/2023
Time	10:00 AM to 01:00 PM
Event Type	Workshop
Event Level	Dept. Level
Venue	Ragam Hall
Total Participants	143
Faculty - Internal	2
Students - Internal	105
Students - External	36

Related SDG

Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Nithin S	Co-Curricular Affairs Secretary	IITM	sec-cocur@smail.iitm.ac.in	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Balaji Arunachalam	Convenor

Outcome

Participants should have a solid understanding of the fundamental concepts behind neural networks, including neurons, layers, activation functions, and weights.Practical experience in implementing neural networks. This could include coding exercises, model building, and training on sample datasets.Competence in training neural network models using appropriate algorithms and frameworks. Participants should also be able to evaluate model performance using various metrics.Knowledge of how to fine-tune hyperparameters to optimize model performance.Familiarity with different neural network architectures, such as feedforward networks, convolutional neural networks (CNNs), and recurrent neural networks (RNNs).Understanding the concept of transfer learning and the ability to apply pre-trained models to new tasks.Insight into how neural networks are applied in real-world scenarios across various industries, such as image recognition, natural language processing, and reinforcement learning.Awareness of common challenges in neural network development and knowledge of best practices for overcoming them.Understanding techniques for interpreting and explaining neural network decisions, which is crucial for applications in sensitive domains.Opportunities for participants to collaborate, share ideas, and work on group projects. This encourages a community of learning and problem-solving.Providing participants with resources, references, and tools to continue learning about neural networks independently after the workshop concludes.Addressing participant questions, challenges, and problem-solving sessions to ensure a comprehensive understanding of the material.Facilitating networking opportunities among participants, allowing them to connect with peers, experts, and potential collaborators in the field of neural networks.

Event Summary

The Neural Networks workshop held at KPR Institute of Engineering and Technology on December 20, 2023, was a resounding success. With the collaboration from SAMPARK Team, IIT Madras, the event provided a platform for students and professionals to delve into the cutting-edge advancements in artificial intelligence.**Key Highlights:**The workshop witnessed an impressive turnout with students from various disciplines and professionals eager to explore the intricacies of neural networks. Renowned experts in the field delivered insightful sessions, covering a range of topics from basic concepts to advanced applications of neural networks. Attendees had the opportunity to engage in hands-on exercises and demonstrations, fostering a practical understanding of neural network implementation.The workshop emphasized real-world applications of neural networks, showcasing how this technology is revolutionizing industries such as healthcare,

finance, and technology.Participants actively participated in interactive Q&A sessions with the speakers, gaining valuable insights and clarifications on complex concepts.The sponsorship by SAMPARK Team, IIT Madras, played a pivotal role in the success of the workshop. Their support enabled us to bring in top-notch speakers, organize engaging activities, and provide participants with an enriching learning experience.

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