

Avinashi Road, Arasur, Coimbatore.

Phone: 0422-2635600 Web: kpriet.ac.in Social: kpriet.ac.in/social **AM002**

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

EXPERT TALK SERIES ON CONVOLUTIONAL NEURAL NETWORK: TRAINING, TESTING AND EVALUATIONS

Event No	AM002		
Organizing Department	Artificial Intelligenceand Machine Learning		
Date	23/09/2023 to 07/10/2023 (15 Days)		
Time	06:00 PM to 08:00 PM		
Event Type	Expert Talk		
Event Level	Dept. Level		
Meeting Medium			
Meeting Link	https://us06web.zoom.us/j/82118457347?pwd=H5miEAtoMDLH6je6jbOrCKeVDlqlY1.1		
Total Participants	13		
Students - Internal	13		

Related SDG



Resource Persons

SI	Туре	Name	Designation	Company	Email	Phone
1	Resource Person	Dr Mohanraj V	Senior Manager AIML Delivery	Standard Chartered GBS	mohanraj4072@gmail.com	xxxxxxxxx

Involved Staffs

SI	Name	Role
1	Karthikeyan S	Convenor
2	Nandhagopal S	Coordinator

Outcome

Participants will gain a strong understanding of the fundamental concepts behind CNNs, including convolutional layers, pooling, and activation functions. Participants will learn various techniques for training CNNs, including backpropagation, optimization algorithms, and weight initialization. Participants will become proficient in testing and evaluating CNN models using metrics like accuracy, precision, recall, F1 score, and ROC-AUC.

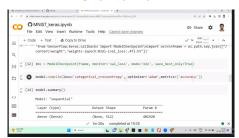
Event Summary

Understanding CNN Fundamentals: The fundamental concepts behind CNNs, including convolutional layers, pooling, and activation functions. Training Techniques: Learn various techniques for training CNNs, including backpropagation, optimization algorithms, and weight initialization. Testing and Evaluation: The proficient in testing and evaluating CNN models using metrics like accuracy, precision, recall, F1 score, and ROC-AUC. Hyperparameter Tuning: Understanding how to effectively tune hyperparameters, such as learning rates, batch sizes, and model architecture, to optimize CNN performance. Data Preprocessing: Learning about data preprocessing techniques like normalization, augmentation, and handling imbalanced datasets to improve CNN performance. Transfer Learning: Understanding how to leverage pre-trained CNN models for specific tasks and fine-tune them. Handling Overfitting: Techniques for preventing overfitting in CNNs, such as dropout, regularization, and early stopping. Advanced Architectures: Exploring more advanced CNN architectures like VGG, ResNet, and Inception and understanding their advantages and use cases. Practical Implementation: Hands-on experience with implementing CNNs using popular deep learning frameworks like TensorFlow or PyTorch. Real-world Applications: Demonstrating how CNNs are applied in various domains, such as computer vision, natural language processing, and healthcare. Research Trends: Keeping participants informed about the latest research trends and developments in the field of CNNs. Case Studies: Analyzing real-world case studies and projects that highlight the practical use of CNNs in solving specific problems.

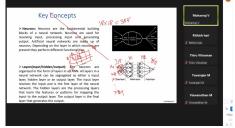




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