TWO DAYS WORKSHOP ON "THE FUTURE OF INTELLIGENCE :MACHINE LEARNING AND BEYOND"

Event No	AM002
Organizing Department	Artificial Intelligenceand Machine Learning
Date	17/04/2024 to 18/04/2024 (2 Days)
Time	09:00 AM to 04:00 PM
Event Type	Workshop
Event Level	Dept. Level
Venue	II Year AIML Class Room
Total Participants	82
Faculty - Internal	4
Students - Internal	78

Related SDG

Involved Staffs

Sl	Name	Role
1	Karthikeyan S	Convenor
2	Nandhagopal S	Coordinator
3	Kothai G	Coordinator

Outcome

Students gained a comprehensive understanding of the current state of machine learning, its underlying principles, and its potential future developments. Students were introduced to cutting-edge research and emerging technologies in the field of artificial intelligence (AI) and machine learning, including advancements in deep learning, reinforcement learning, natural language processing and computer vision. The workshop explores real-world applications of machine learning across various industries such as healthcare, finance, transportation, manufacturing, and entertainment, showcasing how AI technologies are transforming businesses and society.

Event Summary

Around 78 students attened the Two days Workshop on 'THE FUTURE OF INTELLIGENCE :MACHINE LEARNING AND BEYOND'. Through presentations, discussions, and interactive sessions, students gained a comprehensive understanding of fundamental machine learning concepts such as supervised learning, unsupervised learning, reinforcement learning, neural networks, and deep learning architectures. The workshop delves into advanced topics beyond traditional machine learning techniques, such as deep reinforcement learning, generative adversarial networks (GANs), transfer learning, federated learning, and ethical considerations in AI. Subject experts present real-world applications and case studies demonstrating how machine learning is transforming various domains, including healthcare, finance, marketing, cybersecurity, autonomous vehicles, and natural language processing. Students engage in hands-on workshops and tutorials where they apply machine learning algorithms to real datasets, gaining practical experience in data preprocessing, model training, evaluation, and deployment.The workshop provides exposure to cutting-edge research, innovative applications, and emerging trends in machine learning inspires participants to explore new ideas, experiment with novel approaches, and push the boundaries of AI technology. The outcomes of the workshop extend beyond mere knowledge acquisition to include skill development, networking, inspiration, and community building, ultimately contributing to the collective advancement of the field of artificial intelligence and shaping the future of intelligence in profound ways.

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

Department of CSE (Artificial Intelligence & Machine Learning)

Organizes

Two Days Workshop on

"The Future of Intelligence: Machine Learning and Beyond"

(17.04.2024 & 18.04.2024)

Dr. S Karthikeyan
Associate Professor & Head
Department of CSE(AIML), KPRIET

Mr. S Rajeshkumar
Assistant Professor (Sr. G.)
Department of CSE, KPRIET

Mr. S. Nandhagopal
Assistant Professor (Sr. G)
Department of CSE(AIML), KPRIET

Dr. G. Kothai
Assistant Professor (Sr. G)
Department of CSE(AIML), KPRIET

Day 1

Session	Topic	Expert Members
Session – 1 (09.30 AM – 10.45 AM)	• Introduction to Machine Learning • Supervised Learning o Regression (Linear, Logistic, Polynomial etc) o Decision Tree & Random Forest	Dr. S Karthikeyan Associate Professor & Head Department of CSE(AIML), KPRIET
Session – 2 (11.00 AM – 12.30 PM)	• Supervised Learning o Classification ▪ KNN ▪ Logistic Regression ▪ SVM	Dr. G Kothai Assistant Professor (Sr. G.) Department of CSE(AIML)
Session – 3 (02.00 PM – 03.30 PM)	• Introduction to Unsupervised Learning o Clustering and Dimensionality Reduction ▪ K-Means, PCA o Association Analysis ▪ FP – Growth	Mr. S Rajeshkumar Assistant Professor (Sr. G.) Department of CSE, KPRIET

Day 2

Session	Topic	Expert Members
Session – 1 (09.30 AM – 10.45 AM)	• Introduction to ML Libraries o Exploring Numpy o Working with Numpy Arrays o Data Cleaning o Statistical Analysis	Dr. G Kothai Assistant Professor (Sr. G.) Department of CSE(AIML), KPRIET
Session – 2 (11.00 AM – 12.30 PM)	• ML Libraries o Working on Pandas o Handling missing data o Data Indexing & Selection	Mr. S. Nandhagopal Assistant Professor (Sr. G.) Department of CSE(AIML)
Session – 3 (02.00 PM – 03.30 PM)	• Deploying ML using Matplotlib and Scikit Learn o Basic Plotting o Multiple Subplots o Feature Scaling o Encoding Categorical Data	Dr. S Karthikeyan Associate Professor & Head Department of CSE(AIML), KPRIET

Convenor:
Dr.S.Karthikeyan,
ASP& Head -CSE (AIML)

Coordinators:
Mr.S.Nandhagopal, AP (Sr.G)
Dr.G.Kothai, AP (Sr.G)
Student Coordinator:
Mr.S.Suryaprakash
70106 46069

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