



Learn Beyond

**KPR Institute of
Engineering and
Technology**

(Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

Phone: 0422-2635600**Web:** kpriet.ac.in**Social:** kpriet.ac.in/social**AM002****NBA Accredited**
(CSE, ECE, EEE,
MECH, CIVIL)**TWO DAYS WORKSHOP ON "THE FUTURE OF INTELLIGENCE :MACHINE LEARNING AND BEYOND"**

Event No	AM002
Organizing Department	Artificial Intelligence and 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 attended 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
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**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/APML, KPRJET


 Mr. S. Rajesh Kumar
Associate Professor (Dr. G.),
Department of CSE, KPRJET


 Mr. S. Nandhagopal
Associate Professor (Dr. G.),
Department of CSE/APML, KPRJET


 Dr. G. Kotha
Associate Professor (Dr. G.),
Department of CSE/APML, KPRJET

Day 1

Session	Topic	Expert Members
Session - 1 (09.30 AM – 10.45 AM)	<ul style="list-style-type: none"> Introduction to Machine Learning Supervised Learning <ul style="list-style-type: none"> Regression (Linear, Logistic, Polynomial etc) Decision Tree & Random Forest 	Dr. S. Karthikeyan Associate Professor & Head, Department of CSE/APML, KPRJET
Session - 2 (11.00 AM – 12.30 PM)	<ul style="list-style-type: none"> Supervised Learning <ul style="list-style-type: none"> Classification <ul style="list-style-type: none"> Logistic Regression SVM 	Dr. G. Kotha Associate Professor (Dr. G.), Department of CSE/APML, KPRJET
Session - 3 (02.00 PM – 03.30 PM)	<ul style="list-style-type: none"> Introduction to Unsupervised Learning <ul style="list-style-type: none"> Clustering and Dimensionality Reduction k-Means, PCA Association Analysis FP - Growth 	Mr. S. Rajesh Kumar Associate Professor (Dr. G.), Department of CSE, KPRJET

Day 2

Session	Topic	Expert Members
Session - 1 (09.30 AM – 10.45 AM)	<ul style="list-style-type: none"> Introduction to ML Libraries <ul style="list-style-type: none"> Exploring Numpy Working with Numpy Arrays Data Cleaning Statistical Analysis 	Dr. G. Kotha Associate Professor (Dr. G.), Department of CSE/APML, KPRJET
Session - 2 (11.00 AM – 12.30 PM)	<ul style="list-style-type: none"> ML Libraries <ul style="list-style-type: none"> Working on Pandas Handling missing data Data Indexing & Selection Deep Learning ML using Matplotlib and Skit Learn 	Mr. S. Nandhagopal Associate Professor (Dr. G.), Department of CSE/APML, KPRJET
Session - 3 (02.00 PM – 03.30 PM)	<ul style="list-style-type: none"> Deepening ML using Matplotlib and Skit Learn <ul style="list-style-type: none"> Basic Plotting Multiple Subplots Feature Scaling Encoding Categorical Data 	Dr. S. Karthikeyan Associate Professor & Head, Department of CSE/APML, KPRJET

Connector:
Dr. S. Karthikeyan,
APML Head - CSE (APML)

Coordinators:
Mr. S. Nandhagopal, AP (Dr. G.)
Dr. S. Karthikeyan, AP (Dr. G.)
Student Coordinator:
Mr. S. Suresh Kumar
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