



KKR&KSR Institute of Technology and Sciences Vinjanampadu, Guntur, Andhra Pradesh-522017

Approved by AICTE, New Delhi and Permanent Affiliation from JNTUK, Kakinada Accredited with "A" Grade by NAAC & NBA Accreditation Status for 4 UG (CSE, ECE, EEE, ME) Programs

organized A Five-Day Faculty Development Program on "Applications of Machine Learning" from 9th To 13th October 2023.

About the Program:

The program "Applications of Machine Learning" explores the diverse ways machine learning enhances various fields. Participants delve into real-world case studies spanning healthcare, finance, marketing, and more. Through hands-on exercises, they gain practical insights into implementing ML algorithms for predictive analysis and decision-making. The workshop covers cutting-edge techniques like deep learning and reinforcement learning, equipping attendees with tools to tackle complex data problems. Ethical considerations in ML deployment are emphasized, fostering responsible AI development. Collaborative sessions encourage knowledge sharing and problem-solving among participants. Industry experts share insights on current trends and future directions in ML applications. By the workshop's end, attendees emerge with a comprehensive understanding of ML's transformative potential across industries. Practical demonstrations showcase ML models in action, from recommendation systems to image recognition. Networking opportunities allow participants to connect with peers and experts, fostering a supportive community of ML enthusiasts.

About the Chief Guest: Dr. Md. Moulana & Dr.BLN Phaneendra Kumar

Dr. Md. Moulana

Deputy Head and Professor Department of CSE, KL Deemed to be University, Vaddeswaram





Dr.BLN Phaneendra Kumar

Sr. Assistant Professor

Department of CSE, K L Deemed to be University, Vaddeswaram, Guntur.

Objectives of the program:

- 1. Introduce participants to the foundational concepts and algorithms of machine learning.
- 2. Explore diverse real-world applications of machine learning across industries such as healthcare, finance, and marketing.
- 3. Provide hands-on experience in implementing machine learning algorithms for predictive analysis and decision-making.
- 4. Foster an understanding of advanced techniques including deep learning and reinforcement learning.
- 5. Emphasize the importance of ethical considerations in deploying machine learning models.
- 6. Encourage collaboration and knowledge sharing among participants through interactive sessions and group activities.
- 7. Facilitate discussions with industry experts to gain insights into current trends and future directions in machine learning applications.
- 8. Demonstrate the practical implications of machine learning through live demonstrations and case studies.
- 9. Create networking opportunities for participants to connect with peers and experts in the field.
- 10. Equip attendees with the skills and knowledge to leverage machine learning effectively in their respective domains.
- **2.Venue of the Event:** The event is organized on campus and conducted by KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Guntur, Andhra Pradesh in association with SPARK
- 3. Date & Time of the Event: The Event is organized
- 4.No. of faculties participated: 50





6.Event photographs.



KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES



(Accredited by NBA & NAAC with Grade "A" and Affiliated to JNTUK-Kakinada) Vinjanampadu, Vatticherukuru Mandal, Guntur-522017. Andhra Pradesh. INDIA

A FIVE DAY - FACULTY DEVELOPMENT PROGRAM

APPLICATIONS OF MACHINE LEARNING

Organized by Department of CSE-Data Science

Chief Patrons

Sri K.Subba Rao, Chairman, KITS Sri K.Sekhar, Secretary, KITS

Patrons

Dr.P.Babu, Principal, KITS Dr.K.Haribabu, Academic Director, KITS

Convener

Dr. B. Bhanu Prakash, Professor, HOD-CSD

RESOURCE PERSONS

Dr. M Prabukumar

Professor & Sr- Scientist. School of Computer Science Engineering and Information Systems (SCORE), Vellore Institute of Technology, Vellore

Dr. B L N Phaneendra Kumar

Department of CSE. K L Deemed to be University, Vaddeswaram

Dr. M Ashok Kumar

Department of IT V R Siddhartha Engineering College, Vijayawada

Dr. Md Moulana

Deputy Head and Professor Department of CSE, K L Deemed to be University, Vaddeswaram

Dr.V Radhesyam

Department of IT V R Siddhartha Engineering College, Vijayawada 09th - 13th October, 2023

06:00 PM - 08:00 PM

Venue: Online Platform

AGENDA

- O DAY-1
 - Introduction to Machine Learning
 - Overview of Deep Learning
 - Supervised and Unsupervised Algorithms
- - Applications of Machine and Deep Learning
 - Case studies on Machine/Deep Learning Algorithms
- O DAY-3
 - Introduction to Image Processing and
 - Spectroscopy
 HSI Processing: Dimensionality reduction & Classification
- DAY-4
 - Introduction to Optimization
 - Applications of Optimizations in HSI Processing - Case Studies
- DAY-5
 - Case Studies on Machine / Deep Learning
 - Algorithms for HSI Processing
 - HSI applications in Various Fields

Registration Link or Scan the QR Code

https://forms.gle/qLQgoBCy26RHVqJH9

Registration Fee: 150/-









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DEPARTMENT OF CSE-DATA SCIENCE

Presents

A FIVE DAY FACULTY DEVELOPMENT PROGRAM ON Applications of Machine Learning

Resource Person

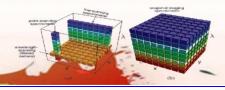


Dr. B L N Phaneendra Kumar Sr. Assistant Professor Department of CSE, K L Deemed to be University,

Vaddeswaram, Guntur

Day = 4

- INTRODUCTION TO OPTIMIZATION
- APPLICATIONS OF OPTIMIZATIONS - BAND SELECTION IN HYPER SPECTRAL REMOTE SENSING IMAGES



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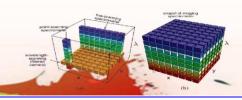
Resource Person

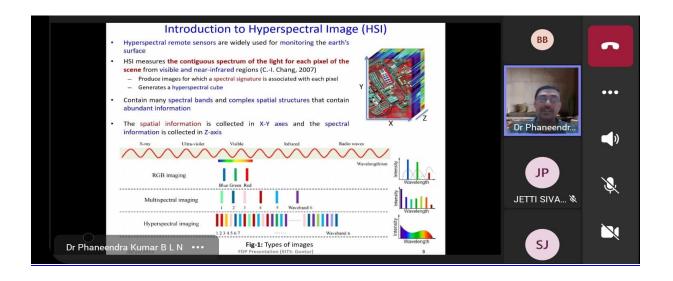


Dr. Mo. MoulanaDeputy Head and Professor
Department of CSE,
K L Deemed to be University,
Vaddeswaram

Day + 5

- CASE STUDIES ON MACHINE / DEEP LEARNING ALGORITHMS FOR HSI PROCESSING
- HSI APPLICATIONS IN VARIOUS FIELDS





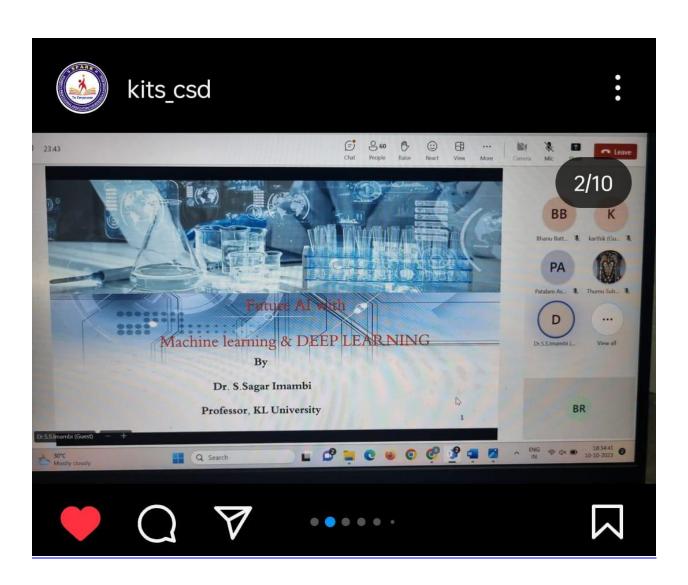






Promotion of the Event on the Social Media Website: (Link and Screenshot):

https://www.instagram.com/p/CyfIVAuJupe/?igsh=MWIqdTFpNGMy
bmRtZA==







- 2. Expenditure Amount (If any): Nil
- 3. **Remarks:** The event is organized smoothly with practical orientation.
- 4. **Experiences and Output of the Session Personal Projects:** During the session, participants will engage in hands-on activities and discussions to develop personal projects leveraging machine learning concepts. Here are some potential experiences and outputs:
 - 1. **Project Ideation**: Participants brainstorm and refine project ideas based on their interests and the concepts covered in the workshop.
 - 2. **Data Exploration**: They learn techniques for collecting and preprocessing data, ensuring it's suitable for machine learning tasks.
 - 3. **Model Development**: Participants implement machine learning models using popular frameworks like TensorFlow or scikit-learn, guided by workshop instructors and resources provided.
 - 4. **Experimentation and Iteration**: They experiment with different algorithms, hyperparameters, and feature engineering techniques to optimize model performance.
 - 5. **Evaluation and Interpretation**: Participants assess their models' performance using appropriate evaluation metrics and interpret the results to derive insights.
 - 6. **Documentation**: They document their project findings, methodologies, and results, creating a comprehensive report or presentation to share with peers and instructors.
 - 7. **Feedback and Collaboration**: Participants receive feedback from peers and instructors, fostering collaboration and iteration to improve their projects.
 - 8. **Presentation**: Finally, participants present their projects to the group, showcasing their learnings, challenges faced, and outcomes achieved.
 - Networking and Collaboration Opportunities: Through project discussions and presentations, participants may identify opportunities for collaboration or further exploration of shared interests.
 - 10. **Skills Development**: Overall, the session provides participants with valuable hands-on experience, enhancing their skills in machine learning, project management, and communication.