



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

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DEPARTMENT OF INFORMATION TECHNOLOGY

“Report on A One Day Workshop on Data Science Applications Using ML & DL Techniques”

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(An Autonomous Institution since 2010)
Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada
L.B. Reddy Nagar, Mylavaram, NTR District, Andhra Pradesh - 521230

Department of CSE, CSE(AI&ML), IT and AI&DS

Resource Person

DR. ASADI SRINIVASULU
Professor of IT & Head Research Lab
Data Science Research Lab,
Bluecrest University,
Monrovia, Liberia

**A One Day Workshop on
Data Science Applications Using ML & DL Techniques**

convenors
Dr.D. Veeraiah, Professor, HOD CSE
Dr. B. SrinivasaRao, Professor, HOD IT
Dr. O. Rama Devi, Professor, HOD AI&DS
Dr. S. Jaya Pradha, Professor, HOD CSE (AI&ML)

Coordinators
Mr. N. SrinivasaRao, Sr. Asst.Prof, CSE
Mr. T.N.V.S Praveen, Sr. Asst.Prof, CSE
Mr. M. Rajesh Reddy, Sr. Asst.Prof, IT
Mr.S. Jagadeesh, Sr. Asst.Prof, AI & DS

**VENUE: DR.SARVEPALLI RADHA
KRISHNA AUDITORIUM
ADMIN BLOCK II FLOOR
Date: 14th August 2023
Time: 09:00 AM to 04:00 PM**

Event Type	:	A One Day Workshop.
Date(s)	:	14 th August 2023.
Venue	:	Dr. Sarvepalli Radha Krishna Auditorium, Admin Block.
Resource Person	:	Dr. Asadi Srinivasulu, Professor of IT & Head Data Science Research Lab, Bluecrest University, Monrovia, Liberia.
Convener(s)	:	Dr.D. Veeraiah, HoD, Department of CSE. Dr.B.Srinivas Rao, HoD, Department of IT. Dr.O. Rama Devi, HoD, Department of AI & DS. Dr.S. Jaya Pradha, Professor, HoD, Department of CSE (AI&ML).
Co-ordinator(s)	:	Mr. N. SrinivasaRao, Sr. Asst Prof, Dept of CSE. Mr. T.N.V.S Praveen, Sr. Asst Prof, Dept of CSE. Mr. M. Rajesh Reddy, Sr. Asst Prof, Dept of IT. Mr. S. Jagadeesh, Sr. Asst Prof, Dept of AI&DS.
Target Audience	:	B. Tech V Sem CSE, IT, CSE (AI&ML) and AI & DS.
Total no. of Students	:	266 Students.

Objective of the Event:

The objective of the "A One Day Workshop on Data Science Applications Using ML & DL Techniques" is to provide participants (III-year V sem. students) with a comprehensive understanding of Data Science, Machine Learning (ML), and Deep Learning (DL) techniques and their practical applications. The workshop aims to equip attendees with the knowledge, skills, and tools required to effectively apply ML and DL methods to real-world data challenges.

Outcome of the Event:

Knowledge Enrichment: Students gained a solid understanding of the fundamentals of Data Science, Machine Learning, and Deep Learning. They learned about various algorithms, techniques, and methodologies used in these fields.

Hands-on Experience: Through practical sessions and hands-on activities, students had the opportunity to work with real datasets and implement ML and DL models. This practical experience helped them grasp the application of theoretical concepts in real scenarios.

Application Insights: Students learned how ML and DL techniques can be applied across diverse domains, such as image recognition, natural language processing, recommendation systems, and more. They gained insights into the potential applications of these techniques in solving real-world problems.

Skill Development: By the end of the workshop, students had acquired the skills needed to preprocess data, choose appropriate ML and DL algorithms, train models, evaluate model performance, and make data-driven decisions.

Networking: The workshop environment provided a platform for students to interact with experts, fellow students, and industry professionals. This networking opportunity could have led to valuable connections and collaborations in the field of data science.

Awareness of Best Practices: The workshop likely covered best practices in data preprocessing, model selection, hyperparameter tuning, and evaluation techniques. Students learned how to follow a structured approach to achieve better results in their data science projects.

Inspiration for Further Learning: The workshop may have inspired students to delve deeper into the field of data science, motivating them to pursue advanced courses or independent study to enhance their expertise.

Overall, the workshop aimed to empower students with the knowledge and practical skills necessary to leverage Data Science, Machine Learning, and Deep Learning techniques effectively in various applications, contributing to their personal and professional growth in the field of data science.

Description of the Event:

The workshop's inauguration took place on August 14, 2023, with Dr. K. Appa Rao, the Principal, Dr. M. Srinivasa Rao, the Dean of Academics, Dr. D. Veeraiah, the Head of the Department of Computer Science and Engineering (CSE), Dr. B. Srinivasa Rao, the Head of the Department of Information Technology (IT), and Dr. O. Rama Devi, the Head of the Department of Artificial Intelligence and Data Science (AI&DS), as well as Dr. S. Jaya Pradha, the Head of the Department of Computer Science and Engineering specializing in Artificial Intelligence and Machine Learning (CSE-AI&ML) acting as the workshop's conveners. The inauguration was graced by the presence of the workshop's Resource Person, Dr. Asadi Srinivasulu, who is a Professor of Information Technology and the Head of the Data Science Research Lab at Bluecrest University in Monrovia, Liberia.

The workshop commenced with the Resource Person, Dr. Asadi Srinivasulu, taking the lead. Dr. Srinivasulu, a distinguished expert in the field of Information Technology and a prominent figure in the Data Science Research Lab at Bluecrest University in Monrovia, Liberia, delved into the heart of the workshop's theme: Data Science Applications Using Machine Learning (ML) and Deep Learning (DL) Techniques.

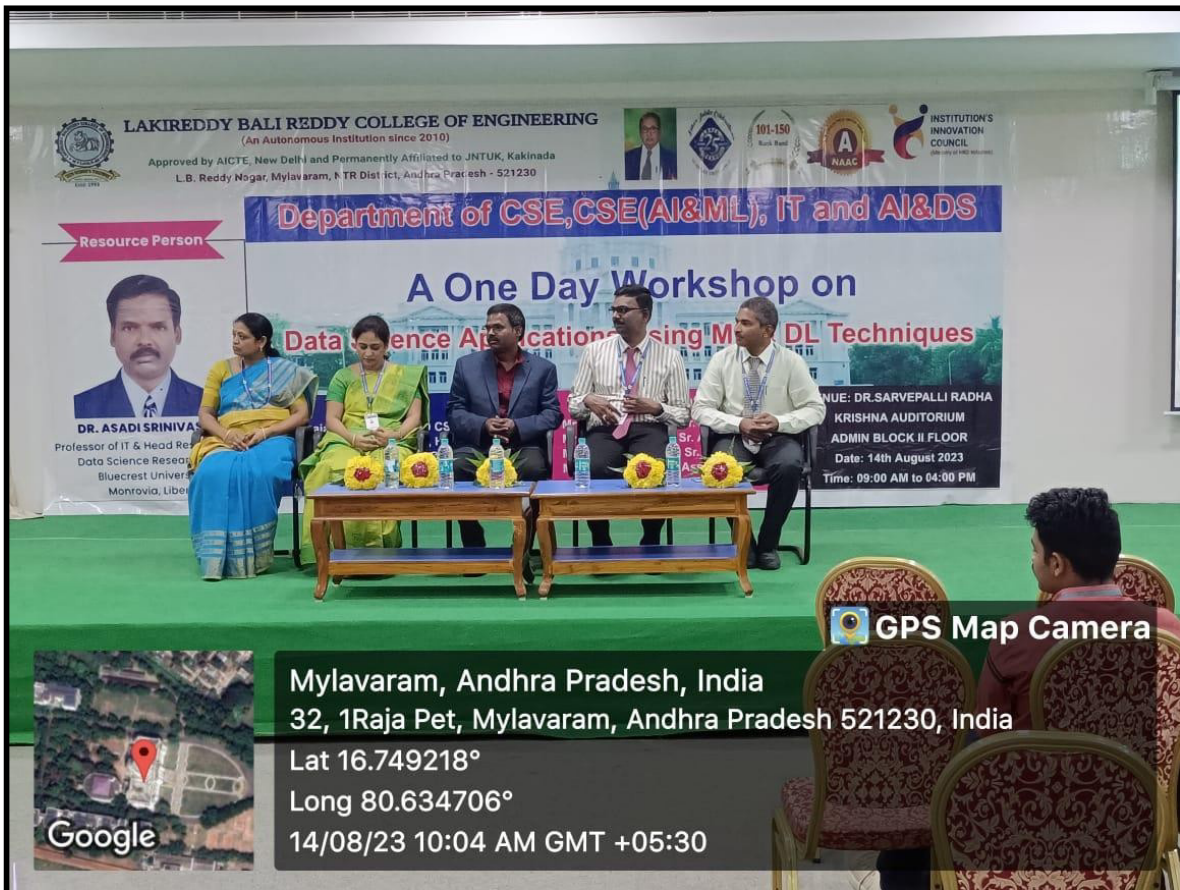
During this pivotal phase of the workshop, Dr. Srinivasulu shared his profound insights and extensive knowledge about the practical implementation of Data Science techniques, particularly focusing on the potent capabilities of Machine Learning and Deep Learning. He skillfully navigated through the intricacies of these advanced methodologies, providing the attendees with an in-depth understanding of their significance and applicability across various domains.

With a deep resonance of expertise and a flair for pedagogical clarity, Dr. Srinivasulu elucidated real-world instances where ML and DL techniques have been pivotal in solving complex challenges. He explored diverse applications, such as image recognition, natural language processing, recommendation systems, and beyond, showcasing the versatile power of these techniques in transforming raw data into actionable insights.

Throughout his discourse, Dr. Srinivasulu intertwined theoretical concepts with practical examples, ensuring that the participants not only comprehended the underlying principles but also grasped how to execute them effectively. By showcasing concrete use cases, he bridged the gap between theory and application, allowing attendees to visualize the impact of ML and DL techniques on solving real-world problems.

His engaging teaching style and interactive approach fostered a conducive learning environment, encouraging participants to ask questions, seek clarifications, and actively participate in discussions. By the end of this enlightening session, students not only gained a broader perspective of Data Science but also acquired a newfound appreciation for the potential that Machine Learning and Deep Learning bring to the table.

In essence, the Resource Person, Dr. Asadi Srinivasulu, kickstarted the workshop by providing a comprehensive and insightful overview of Data Science Applications Using ML and DL Techniques. His expertise ignited a spark of curiosity and eagerness among the attendees, setting the stage for a knowledge-rich and hands-on learning journey throughout the remainder of the workshop.








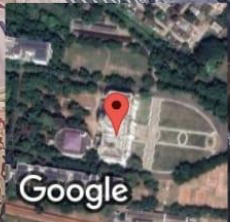
 GPS Map Camera



Mylavaram, Andhra Pradesh, India
LBR College Building, Bhadrachalam Road, Mylavaram, Andhra Pradesh 521230, India
Lat 16.749284°
Long 80.634905°
14/08/23 11:30 AM GMT +05:30



 GPS Map Camera



Mylavaram, Andhra Pradesh, India
12-66, T R Nagar, Mylavaram, Andhra Pradesh 521230, India
Lat 16.749234°
Long 80.634711°
14/08/23 11:30 AM GMT +05:30



Impact Analysis:

- ❖ The completed "A One Day Workshop on Data Science Applications Using ML & DL Techniques" has left a profound impact on participating students.
- ❖ They've deepened their understanding of Data Science, honed practical skills in ML and DL implementation, and gained insights into diverse applications.
- ❖ Networking with experts and peers offers potential collaborations.
- ❖ The workshop's emphasis on best practices and inspiration to further explore the field contributes to academic and professional growth.

Feedback & Suggestions:

Content Depth: The workshop's content was super informative, covering Data Science, ML, and DL in great detail.

Hands-on Learning: The practical sessions were awesome; they helped us put theories into action with real data.

Expert Facilitator: Dr. Asadi Srinivasulu really knew his stuff; he explained complex things so well and made learning interactive.

Real-world Examples: The workshop's use of real examples showed us how ML and DL work in different situations.

Networking Chance: Meeting experts and other students was cool – we could learn beyond the workshop and maybe work together.

Suggestions:

More Time: It would have been great if the workshop was longer, maybe an extra day, to dive deeper into topics.

Adapted Difficulty: Some sessions could have been adjusted to our different skill levels to keep everyone on track.

Interactive Fun: More group discussions or hands-on group activities would have kept us engaged and excited.

Tougher Challenges: If there were harder real-life problems to solve, it would challenge us even more.

Extra Materials: Sharing materials like code samples afterward would help us keep practicing and learning.

శిక్షణతో ప్రపంచస్థాయి నైపుణ్యం



వైలవరం, ఆగస్టు 14(ప్రభుత్వ స్కూల్) కళాశాల లో అధ్యాపకులు ఇస్తున్న శిక్షణ ద్వారా విద్యార్థుల ప్రపంచ స్థాయి కంపెనీల లో పోటీ పడగల నైపుణ్యం సంపాదించగలరని స్థానిక లకిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాల ప్రెసిడెంట్ డా.కె.అప్పారావు పేర్కొన్నారు. లకిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాల లో సీఎస్ఈ, సీఎస్ఈ (ఏఐ అండ్ ఏంఎల్),ఐటీ,ఏఐ అండ్ డిఎస్,విభాగాలలో సోమవారం ఆర్జిఫిషల్ ఇంటలిజెన్స్ (ఏఓ) అన్ని రంగాలను ప్రభావితం చేస్తూ విష్ణువాత్మక మార్పులు తీసుకొస్తున్న నేపథ్యంలో ఆర్జిఫిషల్ ఇంటలిజెన్స్ దాని అనుబంధ అప్లికేషన్స్ లాంటి మెషిన్ లెర్నింగ్ (ఎంఎల్) అండ్ డీప్ లెర్నింగ్ (డీఎల్) విద్యార్థులకు శిక్షణ ఇవ్వటం, వారిని పరిశ్రమల అవసరాలకు తగట్టుగా తయారు చేయగలదని, గ్లోబల్ ప్రపంచంలో విద్యార్థులను ఉన్నతస్థితిలో నిలిపి వారికే మంచి భవిష్యత్తును, ఉత్తమ ప్యాకేజీ పొందేలాగా ఉపయోగపడుతుందని విద్యార్థులకు డేటా సైన్స్ అప్లికేషన్స్ యూసింగ్ ఎంఎల్ అండ్ డీఎల్ టెక్నిక్స్ అనే అంశంపై శిక్షణ శిబిరాన్ని నిర్వహించారు. ఈ శిక్షణ శిబిరంలో బ్లూక్లెస్ట్ యూనివర్సిటీ, మోడ్రోవియా, లైటిరియా నుండి ఆసాది శ్రీనివాసులు రిసోర్స్ పర్సన్ గ వ్యవహరించారు. ఈ కార్యక్రమంలో డా.డి వీరయ్య సీ ఎస్ ఈ విభాగాధిపతి, డా.బి.శ్రీనివాసరావు ఐటీ విభాగాధిపతి, డా.ఓ.రమాదేవి, ఏఐ అండ్ డిఎస్ విభాగాధిపతి, డా.ఎస్.జయప్రద సీ ఎస్ ఈ (ఏఐ అండ్ ఏంఎల్) విభాగాధిపతి కన్వీనర్స్ గా వ్యవహరించగా వివిధ విభాగాధిపతులు, అధ్యాపకులు విద్యార్థులు పాల్గొన్నారు.

Dr. B. Srinivasa Rao

HOD: IT