



## LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

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An ISO 21001:2018, 14001:2015, 50001:2018 Certified Institution

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L.B. REDDY NAGAR, MYLAVARAM, NTR DIST., A.P.-521 230.

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (AI&ML)**

### “Report on Three Days Workshop on AI POWERED IOT”

<b>Event Type</b>	: Workshop
<b>Date</b>	: 26 <sup>th</sup> September – 28 <sup>th</sup> September 2024
<b>Venue</b>	: Machine Learning Lab , First Floor, 1F11
<b>Resource Person(s)</b>	: Mr.P.Ashok Chakravarthy, Founder & CEO, SLABS
<b>Name of the Convener</b>	: Dr.S.Jayaprada, Head of the Department CSE(AI&ML)
<b>Name of the Co-ordinators(s)</b>	: Dr.Shaik Jameer, Sr. Asst.Prof, Dept of CSE(AI&ML) Mrs. K. RajaSree, Asst. Prof, Dept of CSE(AI&ML) Mrs. P. Sowjanya, Asst. Prof, Dept of CSE(AI&ML)
<b>In Association With</b>	: SLABS, Guntur
<b>Targeted Audience</b>	: B.Tech IV Sem CSE(AI&ML) Students, 2 Faculty members
<b>Total No. of Students</b>	: 65 Students

**Objective of the Event :** To equip participants with a comprehensive understanding of how AI technologies can enhance IoT systems, enabling them to leverage these innovations for improved decision-making, operational efficiency, and innovative applications across various industries. Participants will also explore practical implementation strategies, security considerations, and future trends in the AI and IoT landscape.

#### **Learning Objective of the event :**

- **Understanding AI and IoT Integration:**
  - Grasp the fundamentals of how AI enhances IoT systems and applications.
- **Real-World Applications:**
  - Explore case studies showcasing successful implementations of AI in IoT environments across various industries.
- **Data Analytics and Insights:**

- Learn how AI algorithms can process and analyze IoT data to generate actionable insights.
- **Security and Privacy:**
  - Discuss the challenges and solutions related to securing AI-powered IoT systems, including data privacy concerns.
- **Development and Deployment:**
  - Gain knowledge on best practices for developing and deploying AI-driven IoT solutions, including tools and frameworks.
- **Future Trends:**
  - Examine emerging trends and technologies in AI and IoT and their potential impact on businesses and society.
- **Collaboration Opportunities:**
  - Identify opportunities for collaboration among stakeholders in the AI and IoT ecosystems

#### **Description of the event :**

##### **Day 1: 26-09-2024**

- Workshop was inaugurated on 18/04/2024 by **Dr.S.Jayaprada**, HOD CSE(AI&ML), Convener of the workshop, along with **Mr.P.Ashok Chakravarthy**, Resource Person, Slabs, Founder & CEO, Coordinators of the workshop and all the teaching staff of CSE(AI&ML).
- Coordinators of the Workshop, **Dr.Shaik Jameer**, **Mrs.K.RajaSree** and **Mrs.P.Sowjanya** welcomed all the dignitaries and delegates. In the welcome speech, the importance and objectives of organizing this Workshop were highlighted. The convener of the Workshop, **Dr. S.Jayaprada** started the speech by thanking LBRCE Management and congratulating all the participants who registered for this workshop. Then she thanked the Resource Person **Mr.P.Ashok Chakravarthy** and his Team, for accepting our request irrespective of his busy schedule. They added the importance of IoT using Arduino & Raspberry Pi-Pico. She suggested all the students should utilize this opportunity, which will help them in identifying/doing projects in IoT.
- Resource Person **Mr.P.Ashok Chakravarthy** started this workshop and explained IoT Basics, The Future of IoT, few applications of IoT, Challenges of IoT, IoT Architecture, Server, Gateway, Processor, Controller, Mobile Application.
- Resource Person **Mr.P.Ashok Chakravarthy** and his team handled hands-on sessions for the Future of IoT.



Mylavaram, Andhra Pradesh, India  
PJXM+CP7, Mylavaram, Andhra Pradesh 521230, India  
Lat 16.748627°  
Long 80.633988°  
26/09/24 10:05 AM GMT +05:30

GPS Map Camera



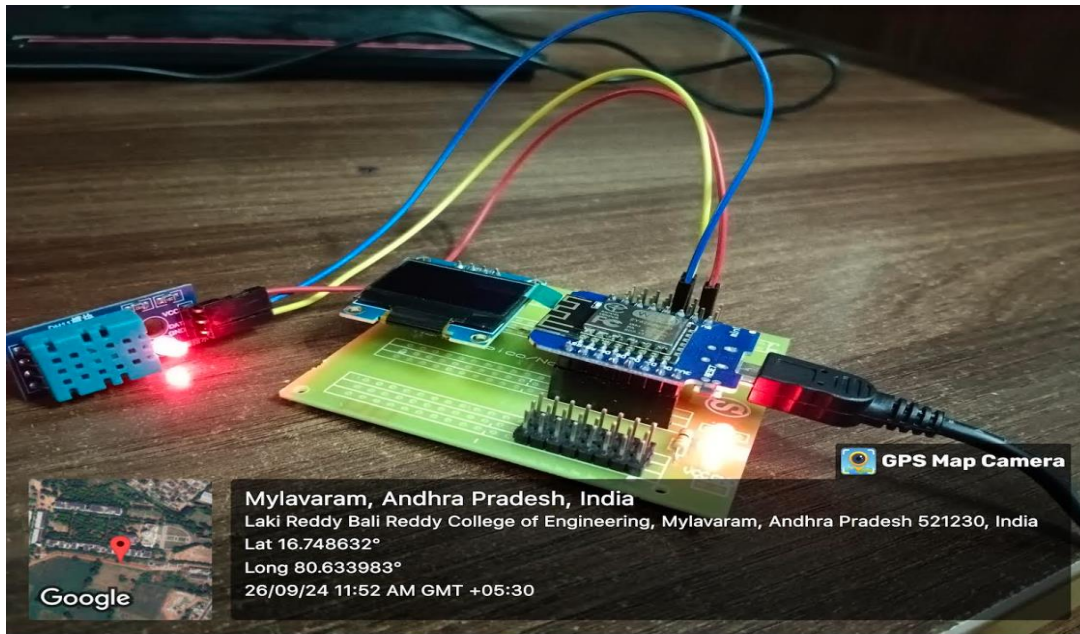
Mylavaram, Andhra Pradesh, India  
Lakireddy Balireddy College of Engineering, Mylavaram, Andhra Pradesh 521230, India  
Lat 16.748619°  
Long 80.633985°  
26/09/24 10:07 AM GMT +05:30

GPS Map Camera



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Lakireddy Balireddy College of Engineering, Mylavaram, Andhra Pradesh 521230, India  
Lat 16.748619°  
Long 80.633985°  
26/09/24 10:06 AM GMT +05:30

GPS Map Camera



## Day2: 27-09-2024

- Resource Person **Mr.P.Ashok Chakravarthy** covered few applications of IoT, Challenges of IoT, IoT Architecture.
- Resource Person **Mr.P.Ashok Chakravarthy** and his team handled hands-on sessions on Mobile Application.





### Day 3: 28-09-2024

- Resource Person **Mr.P.Ashok Chakravarthy** covered Server, Gateway, Processor, Controller.
- Resource Person **Mr.P.Ashok Chakravarthy** and his team handled hands-on sessions on Picking Up a real-World problems such as smart cities, industrial automation, healthcare, agriculture, and consumer electronics, gaining insights into how IoT technology is transforming different sectors.





### Impact Analysis :

- **Economic Boost:** IoT drives growth by improving efficiency and creating new revenue streams. Social Advancements: Enhances safety, healthcare, and urban living standards.
- **Environmental Concerns:** Balancing benefits with energy consumption and waste management. Security Risks: Vulnerabilities in networks and data privacy issues.
- **Workforce Changes:** Requires new skills while impacting job roles. Regulatory Challenges: Addressing data ownership, consent, and ethical use.

### Feedback & Suggestions:

**Clarity and Structure:** Your questions and requests are clear, making it easier to assist you.

**Specificity:** Providing specific details about your requirements helps in providing more accurate assistance. Grammar and Spelling: Pay attention to grammar and spelling to ensure clarity and professionalism in your communications.

**Organization:** Structuring your questions and responses in a clear and organized manner can improve readability and understanding.

**Feedback on Assistance:** Providing feedback on the assistance you receive can help tailor future responses to better meet your needs.

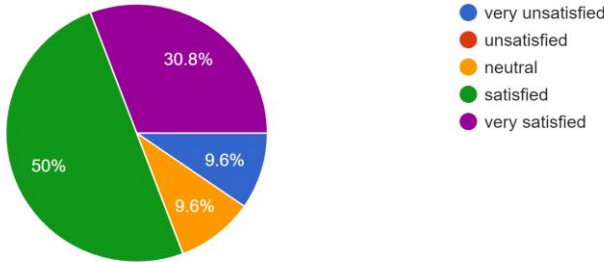
**Open-ended Questions:** Consider asking open-ended questions to encourage deeper discussion and exploration of topics. Clarity and Structure: Your questions and requests are clear, making it easier to assist you.

**Specificity:** Providing specific details about your requirements helps in providing more accurate assistance. Grammar and Spelling: Pay attention to grammar and spelling to ensure clarity and professionalism in your communications.

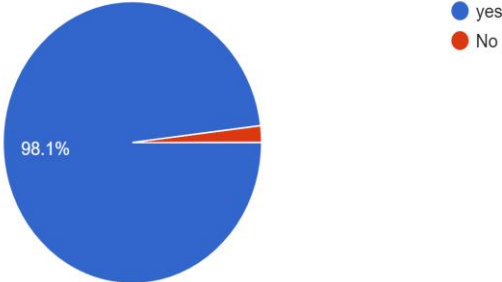
**Organization:** Structuring your questions and responses in a clear and organized manner can improve readability and understanding. **Feedback on Assistance:** Providing feedback on the assistance you receive can help tailor future responses to better meet your needs. **Open-ended Questions:** Consider asking open-ended questions to encourage deeper discussion and exploration of topics.

**FEEDBACK RESPONSES FROM ALL THE PARTICIPANTS:**

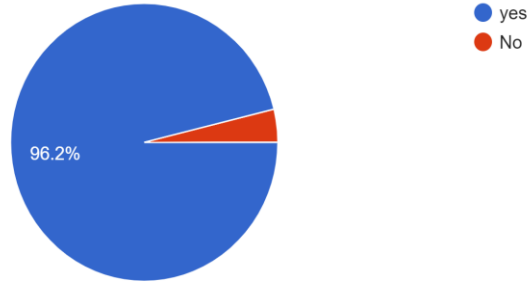
Were the objectives of the workshop clearly defined and communicated?  
52 responses



Was the information presented easy to understand?  
52 responses



Do you feel the topics covered were new and insightful?  
52 responses







**SUGGESTIONS:**

- Make lectures interactive with discussions and hands-on activities.
- Use real-world examples to illustrate IoT concepts.
- Assign practical projects and programming exercises.
- Invite guest speakers for industry insights.
- Offer flexible learning options and resources.
- Ensure easy access to course materials and support.
- Encourage student exploration and creativity.
- Seek and act on student feedback for continuous improvement.

**OUTCOME OF THE EVENT:**

- Increased awareness and understanding of IoT technologies.
- Enhanced skills in IoT development and implementation.
- Collaboration opportunities among participants and industry experts.
- Exploration of emerging IoT trends and applications.
- Potential for innovative solutions and projects in various domains.
- Networking and knowledge-sharing among attendees.
- Inspiration for future research and career paths in IoT.

**IMPACT ANALYSIS OF THE EVENT:**

- Implementations and their impact across industries.
- By combining various AI Techniques and Models to integrate AI algorithms with IoT devices.
- Challenges and Ethical Considerations like data privacy, security, and ethical AI in IoT systems.
- Dive into advanced AI topics like deep learning in edge computing, blockchain for IoT, and 5G impact on IoT scalability.

**PRESS REPORT:**

**వారాప్రభ**

VARITHA PRABHA 28 24 2024  
28 Sep 2024

**ఎల్ జి ఆర్ సి ఈ లో ఏఐ ప్రాజెక్టు లపై విద్యార్థులకు అవగాహన**



మైలవరం, సెప్టెంబర్ 28 (వారాప్రభ) : స్థానిక లక్ష్మిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలో ఏఐ ప్రాజెక్టు లపై విద్యార్థులకు గత మూడు రోజులుగా ఎఐ ఎమ్ ఎల్ అవగాహన సదస్సులు జరుగుతున్నాయి. ఈ నెల 26 నుంచి 28 వరకు ఏఐ అండ్ ఎంఎల్ డిపార్ట్మెంట్ ఆధ్వర్యంలో కృత్రిమ మేధస్సు ఐఐఐఐ నందు పర్యవేక్షణ నిర్వహించారు. ఈ వర్కుషాపు లో రీసోర్స్ పర్సన్ గా యస్ లాట్నీ సీఈఓ పి. అశోక్ చక్రవర్తి వ్యవహరించారు. విద్యార్థులకి ప్రాక్టికల్ గా వివిధ రకాల ఏఐ ప్రాజెక్టు లపై అవగాహన కల్పించారు. ఈ కార్యక్రమంలో ప్రిన్సిపాల్ డా. కె.అప్పారావు, విభాగాధిపతి డా.ఎస్.జయప్రద, అధ్యాపకులు ఏఐ అండ్ ఎంఎల్ మూడవ సంవత్సర విద్యార్థులు హాజరు అయ్యారు.

**విద్యార్థులకి ప్రాక్టికల్ గా**

**వివిధ రకాల ఏఐ ప్రాజెక్టులపై అవగాహన**

మైలవరం, సెప్టెంబర్ 28 మనం న్యూస్ :

స్థానిక లక్ష్మిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలో గత మూడు రోజులుగా ఎఐ ఎమ్ ఎల్ డిపార్ట్మెంట్ ఆధ్వర్యంలో కృత్రిమ మేధస్సు మరియు ఐఐఐఐ నందు పర్యవేక్షణ నిర్వహించారు. ఈ వర్కుషాపు లో రీసోర్స్ పర్సన్ గా యస్ లాట్నీ సీఈఓ పి. అశోక్ చక్రవర్తి హాజరయ్యి విద్యార్థులకి ప్రాక్టికల్ గా వివిధ రకాల ఏఐ ప్రాజెక్టులపై అవగాహన కల్పించారు. ఈ కార్యక్రమంలో ప్రిన్సిపాల్ కె.అప్పారావు, విభాగాధిపతి ఎస్.జయప్రద, అధ్యాపకులు మరియు ఎఐ ఎమ్ ఎల్ మూడవ సంవత్సర విద్యార్థులు హాజరు అయ్యారు.



నాయకులు పాల్గొన్నారు.

**విద్యార్థులకి ప్రాక్టికల్ గా వివిధ రకాల ఏఐ ప్రాజెక్టు ల పై అవగాహన**

మైలవరం సెప్టెంబర్ 28 వుదయం న్యూస్: స్థానిక లక్ష్మిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలో గత మూడు రోజులుగా ఎఐ ఎమ్ ఎల్ డిపార్ట్మెంట్ ఆధ్వర్యంలో కృత్రిమ మేధస్సు మరియు ఐఐఐఐ నందు పర్యవేక్షణ నిర్వహించారు. ఈ వర్కుషాపు లో రీసోర్స్ పర్సన్ గా యస్ లాట్నీ సీఈఓ పి. అశోక్ చక్రవర్తి హాజరయ్యి విద్యార్థులకి ప్రాక్టికల్ గా వివిధ రకాల ఏఐ ప్రాజెక్టు ల పై అవగాహన కల్పించారు. ఈ కార్యక్రమంలో ప్రిన్సిపాల్ కె.అప్పారావు, విభాగాధిపతి ఎస్.జయప్రద, అధ్యాపకులు మరియు ఎఐ ఎమ్ ఎల్ మూడవ సంవత్సర విద్యార్థులు హాజరు



Co-ordinators

Dr SK. JAMEER

*Dr. Jameer*

Mrs. K. RAJASREE

*K.R.*

Mrs. P. SOWJANYA

*P.S.*

Convener

Dr.S. JAYAPRADA

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