



**TWOWEKNATIONALLEVELSHORT TERMTRAININGPROGRAM (Online)on**

**“RESEARCH PRESPECTIVES OF AI,ML,DATA SCIENCE AND IOT”**

**heldfrom17<sup>th</sup>May to05<sup>th</sup>June2021.**

**About K L University:** the Koneru Lakshmaiah Education Foundation was established in 1980-81, as K L College of Engineering, which was upgraded to K L College of Engineering Autonomous in 2006 by UGC and was declared as a Deemed to be University in 2009 by UGC, MHRD Govt. of India. In 2012 as a Deemed to be University, the institution was accredited by NAAC with an A Grade and later in 2018, was re-accredited by NAAC with an A++ grade. In 2019 UGC, MHRD declared this institution as a Category I Institution. The institutes remain indebted to the leadership of our late co-founder Er. Koneru Lakshmaiah and our Founder Er. Koneru Satyanarayana, both of whose vision has helped in creating this abode of learning, has emerged as one of the elite institutes of the nation.

The Department of Electronics and Computer Science, KLEF organized a two week National level Short Term Training Program on **“RESEARCH PRESPECTIVES OF AI,ML,DATA SCIENCE AND IOT”** held from 17<sup>th</sup> May to 05<sup>th</sup> June 2021 in association with Academic Staff College, KLEF.

About the STTP: This STTP is aimed at giving hands-on training to the faculty members, PG Students, and research scholars on various aspects of IoT, AI, ML, Data Science. The STTP comprised a series of technical presentations and a video demonstration of laboratory-based IoT, AI, ML, Data Science experiments. The experiments will use the Arduino and other relevant IoT support technologies and A.I., ML, Data Science simulation software's using python and AWS cloud and think to speak cloud for deploying IoT applications. The STTP is being conducted online mode using facilities MS-Teams/CISCO WebEx/Zoom Application through which resource persons from their respective residence attended all sessions and the registered participants were able to interact with them online using their Desktop / Laptop / Tablet / Smart Phone with internet connectivity.

The course content is delivered from a pool of resource persons on the subject from leading industrial and prestigious academic institutions. Massive Participation by the faculty members of the Engineering and Technical institutions, Research scholars, P.G. Students, Industry, and Research Scientists from private/Government (Bureaucrats/Technicians/Participants from Industry, etc.)

**Resource Persons:**

- Dr. Lalit Singh,
- Dr. Midhun Chakkaravarthy,
- L Venkata Rama Raju,
- Mr. T S V Rajeev,
- Mr. Pattabhi Raman Bobba,
- Dr. Lalitha Bhaskari,
- Dr. E. Suresh Babu,
- Mr. Vamsi Krishna,
- Dr. E. Suresh Babu,
- Dr. Nagaraju Baydeti,
- Mr. Rocky Jagtiani,
- Dr. J. Arul Valan,
- Dr. Ramesh Kumar Mojjada,
- Mrs. K. Krishnaveni,
- Mr. Ch Bhupati.

**Aim and Scope of the STTP:**

This STTP aims to provide a premier interdisciplinary platform for researchers, practitioners, and educators to learn and discuss the most recent innovations, trends, and concerns, as well as practical challenges, encountered and Research Perspectives on AI, ML, Data Science.

The STTP comprises a series of technical presentations and a video demonstration of laboratory-based IoT, AI, ML, Data Science experiments. The experiments will use the advanced embedded platforms and other relevant IoT support technologies and A.I., ML, Data Science simulation software are using python and AWS cloud. Over 40 objectives were meant and but are not limited to: Predictive Analytics, Convolution Neural Networks for Computer Vision, Recurrent Neural Networks, Generative adversarial networks (GAN), Natural Language Processing, transforming healthcare using Artificial Intelligence, Data in Artificial Intelligence and many more.

**Topics included:**

- ✓ ML and seismic signal processing applications
- ✓ Python hands-on programming sessions
- ✓ Nature Inspired Optimization Algorithms and Its Applications
- ✓ AI in Healthcare: Emerging Trends, Use Cases and Future Directions"
- ✓ Introduction to Recommendation System

- ✓ Microservicesdeploymentoncloud
- ✓ Deepthinkingforsafetyanalysisof safety-criticalsystems



Figure 1:GuestsandResourcepersons

- ✓ GradientDescentSolver,DNN,Briefintroductiontosemanticsimilarity,Word2VecWordEmbeddings
- ✓ BasicsofDockerandKubernetes

The Speakers highlighted the current IoT challenges including security, privacy, and scalability, etc along with other challenges of IoT which include processing, storing, and analyzing a large amount of data that comes from so many different resources. An overview on Research Perspectives on AI, ML, Data Science & IoT that are extremely useful in our daily life, such as smart cars, home appliances, and security, health- tracking wearable devices, weather monitors, etc. along with challenges and possible solutions are discussed. The Speakers also stressed Cyber Security technologies that processes and

practices aimed to protect networks, computers, programs, and data from attack, damage, or unauthorized access.

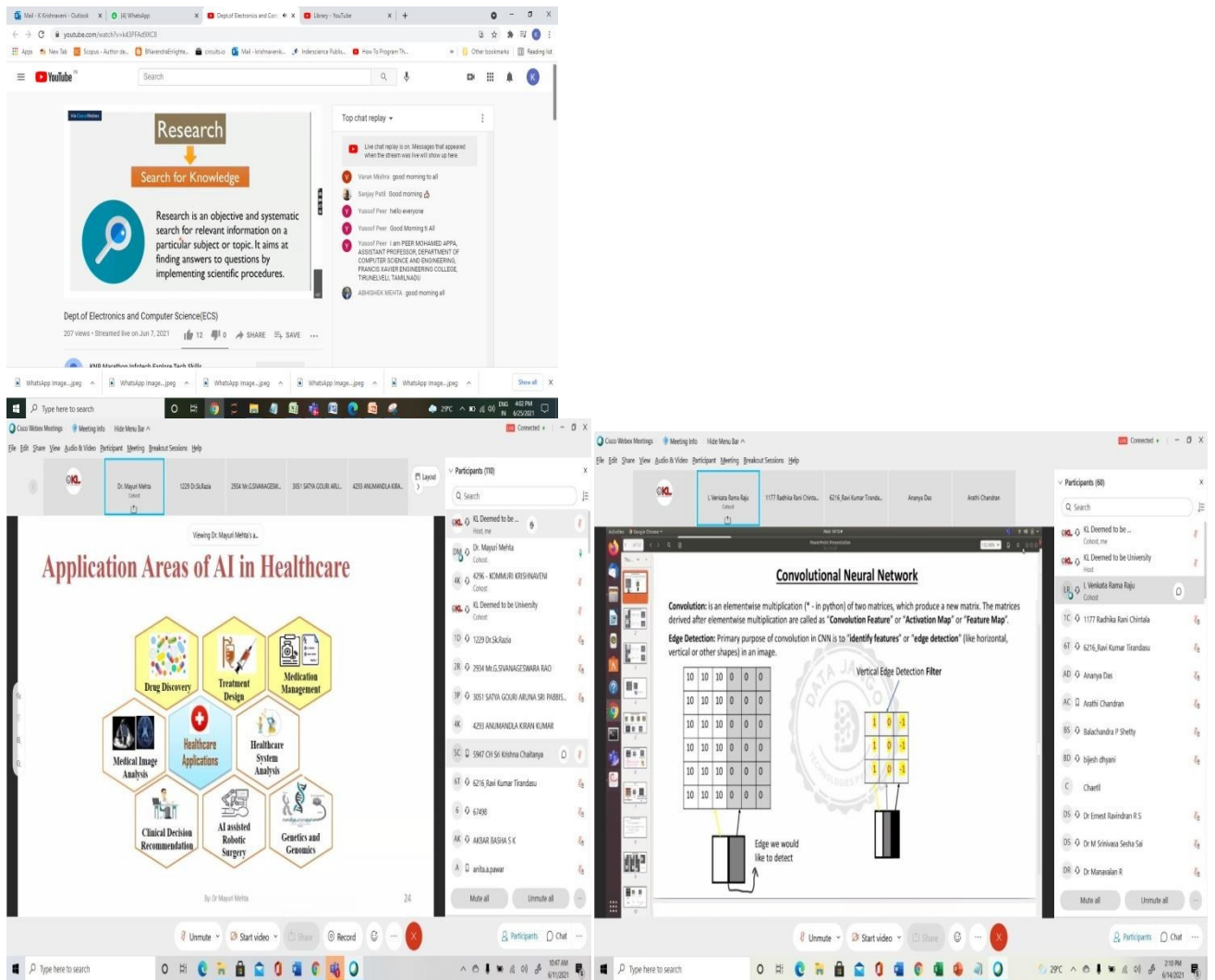


Figure2:WebEx&YouTubeParticipation

A total of 14-Days- STTP brought a lot of experience with over 250 + massive participants all the days inWebEx meetings and on YouTube Live streaming. It has been achieved 862 subscribers 5784 views onYouTube social media whichuplifts the Internet Traffic.

