

**REPORT OF TWO DAYS ALL INDIA SEMINAR
ORGANIZED BY CENTRES /OVERSEAS CHAPTERS**

Name of Centre		IEI KANCHIPURAM LOCAL CENTRE,TAMILNADU	
Title of Activity:		Two Days all India seminar on Application of Artificial Intelligence and Machine Learning in Electrical Engineering	
Activity under Divisional Board		Electrical Engineering division	
Date:	27.07.2022 & 28.07.2022	Venue:	ALPHA HALL, III Floor, Sri Sairam Engineering College



Photo of Inaugural Session with banner of IEI



Photo of Inaugural Session with banner of IEI

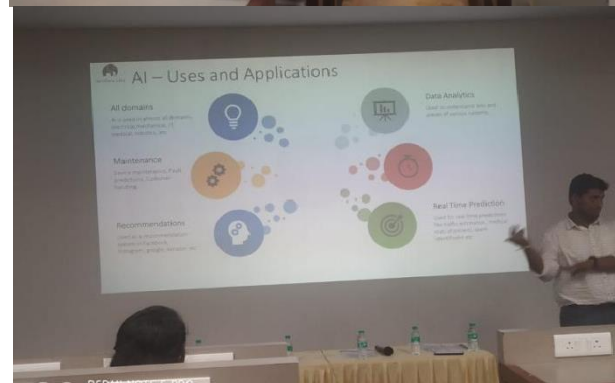
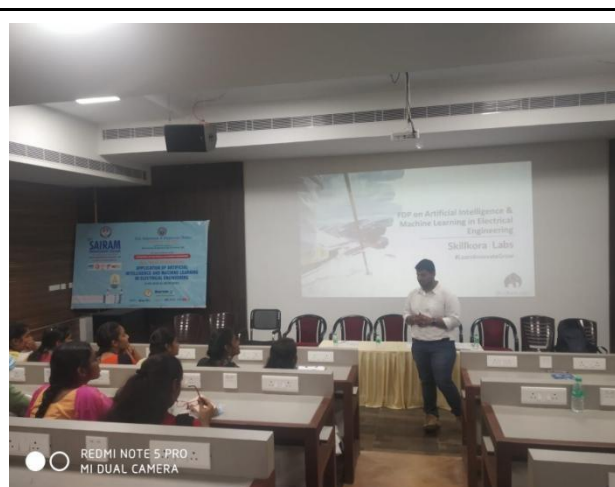


Photo of Technical Session





Report of Workshop

Brief Details about the Programme:

Two Days all India seminar Application of Artificial Intelligence and Machine Learning in Electrical Engineering, Department of Electrical and Electronics Engineering, organized by the Institution of Engineers (India), Kanchipuram Local Centre at Sri Sairam Engineering College. Almost 120 members participated and gained knowledge. The function was inaugurated by Er.R.Ramados FIE ,Chairman-Tamilnadu State center. He inaugurated the function along with IEI Council member & Chairman Dr.D.Elango FIE Kanchipuram Local Center, IEI secretary Dr.G.Shanmugasundar FIE Kanchipuram Local Center, Head of the department and faculty members.

Introduction:

The purpose of the Application of Artificial Intelligence and Machine Learning in Electrical Engineering is to drive economic growth and improve the quality of life of people by enabling local area development and harnessing technology, especially technology that leads to Smart outcomes.

Artificial Intelligence Is a technique for building systems that mimic human behavior or decision-making. The simulation of human intelligence by computer systems. AI can include hardware and software systems and it focuses on 3 cognitive processes: learning, reasoning, and self-correction. Machine learning is a subset of AI.

This means all machine learning is considered as Artificial Intelligence, however not all AI counts as machine learning. Popular AI tools like expert systems, knowledge graphs are not falling under machine learning. Machine learning has the ability to scale itself when exposed to more volume of data unlike expert systems or knowledge graphs. One of the most important aspects of machine learning is that it doesn't require any human intervention to make changes when required. This makes it highly efficient.

Workshop will be dealt with:

ARTIFICIAL INTELLIGENCE:

Less than a decade after helping the Allied Forces win World War II by breaking the Nazi encryption machine Enigma, mathematician Alan Turing changed history a second time with a simple question. At its core, AI is the branch of computer science that aims to answer Turing's question in the affirmative. It is the endeavor to replicate or Human replications in machines. The expansive goal of AI has given rise to many questions and debates. So much so that no singular definition of the field is universally accepted.

MACHINE LEARNING:

Machine Learning is an essential skill for any aspiring data analyst and data scientist, and also for those who wish to transform a massive amount of raw data into trends and predictions. Learn this skill today with Machine, designed and created by industry experts having years of expertise in ML and industry-based projects.

Machines process and communicate in a different way than the human brain. The machines are programmed with algorithms to convert the data into a desirable format for the user. Natural language is a subset of artificial intelligence that helps content developers to automate content and deliver in the desired format. The content developers can use the automated content to promote on various social media platforms, and other media platforms to reach the targeted audience.

Machine learning techniques helps businesses to make informed decisions with data analytics performed using algorithms and statistical models. Enterprises are investing heavily in machine learning to reap the benefits of its application in diverse domains. Healthcare and the medical profession need machine learning techniques to analyze patient data for the prediction of diseases and effective treatment. The banking and financial sector needs machine learning for customer data analysis to identify and suggest investment options to customers and for risk and fraud prevention. Retailers utilize machine learning for predicting changing customer preferences, consumer behaviour, by analyzing customer data. Artificial intelligence software has a high demand in the business world. As the attention for the software increased, a need for the hardware that supports the software also arises. A conventional chip cannot support artificial intelligence models. A new generation of artificial intelligence chips is being developed for neural networks, deep learning, and computer vision

Details of the Sessions:

	Session-1 InauguralSession Inaugural programme	Inaugural Address by: Er.R.RAMADOSS, FIE,Immediate past chairman,Tamilnadu, state centre	
	Session-2 Technical Session I	Presentation by: Mr. Vignesh Kumar G, Founder and Director of Skillkora Labs Topic: Application of Artificial Intelligence and Machine Learning in Electrical Engineering	
	Session-3 Technical Session II	Presentation by: Mr. Vignesh Kumar G, Founder and Director of Skillkora Labs, Mr. Hari Ganesh B, Director, Skillkora labs Topic:Introduction & Need of AI ML in EEE	

	Session - 4 Technical Session III	<p>Presentation by:Mr. Vignesh Kumar G, Founder and Director Mr. Murugan Chidhambaram, Chief Technology Officer, Skillkora Labs</p> <p>Topic: Data exploration in AI ML</p>	
	Session - 5 Technical Session III	<p>Presentation by: Mr. Vignesh Kumar G, Founder and Director of Skillkora Labs, Mr. Hari Ganesh B, Director, Skillkora labs</p> <p>Topic: Case Study - 1</p>	
	Session - 6 Technical Session III	<p>Presentation by:Mr. Vignesh Kumar GFounder and Director, Mr. Murugan Chidhambaram, Chief Technology Officer, Skillkora Labs</p> <p>Topic: Intro to Neural network and Case Study -2</p>	
	Session - 7 Technical Session III	<p>Presentation by: Mr. Vignesh Kumar G, Founder and Director, Mr. Murugan Chidhambaram, Chief Technology Officer, Skillkora Labs</p> <p>Topic: Intro to Neural network Case Study 3 & 4</p>	
	Session- 8 Valedictory function	<p>Valedictory Function</p> <p>Certificates distribution by: Dr. R. Azhagumurugan Professor & Head Department of Electrical and Electronics Engineering</p>	