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Channasandra, Dr. Vishnuvardhan Road, Bengaluru - 560 098
Ph:(080)28611880,28611881 URL: www.rnsit.ac.in

Event Report: IEEE EMBS ECE Department Webinar on

"Application of AI in Medical Imaging"

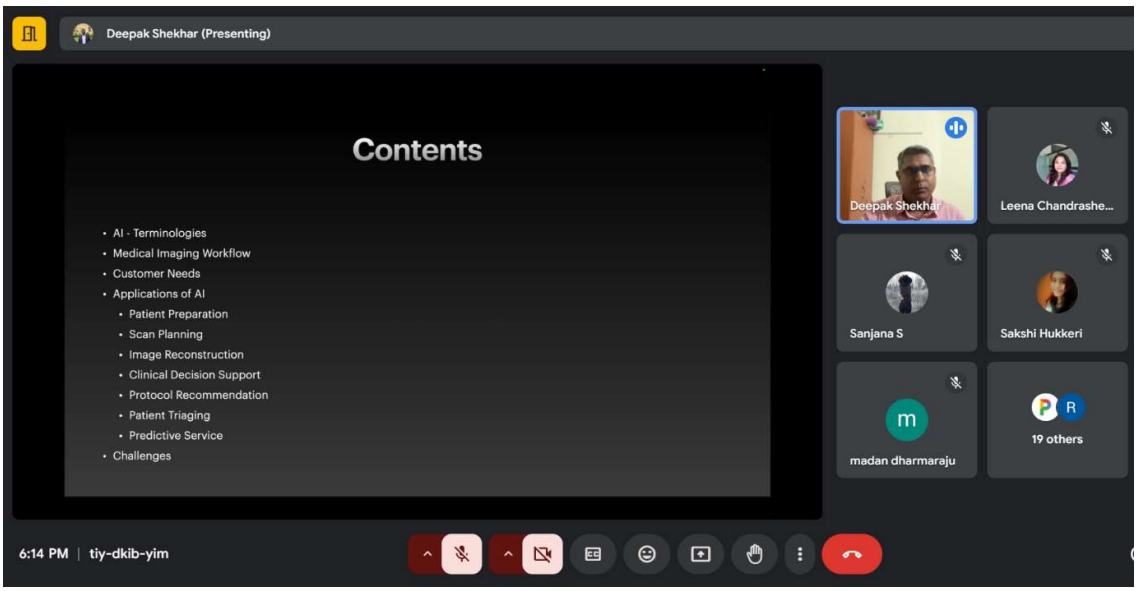
On 1st October 2024, the Department of Electronics and Communication Engineering (ECE) conducted a virtual session from 6:00pm – 7:00pm as part of the IEEE EMBS chapter celebrating the occasion of IEEE Day. The session was led by Mr. Deepak Shekhar, Director - Software Engineering, MR R&D, Philips, with around 30 participants.

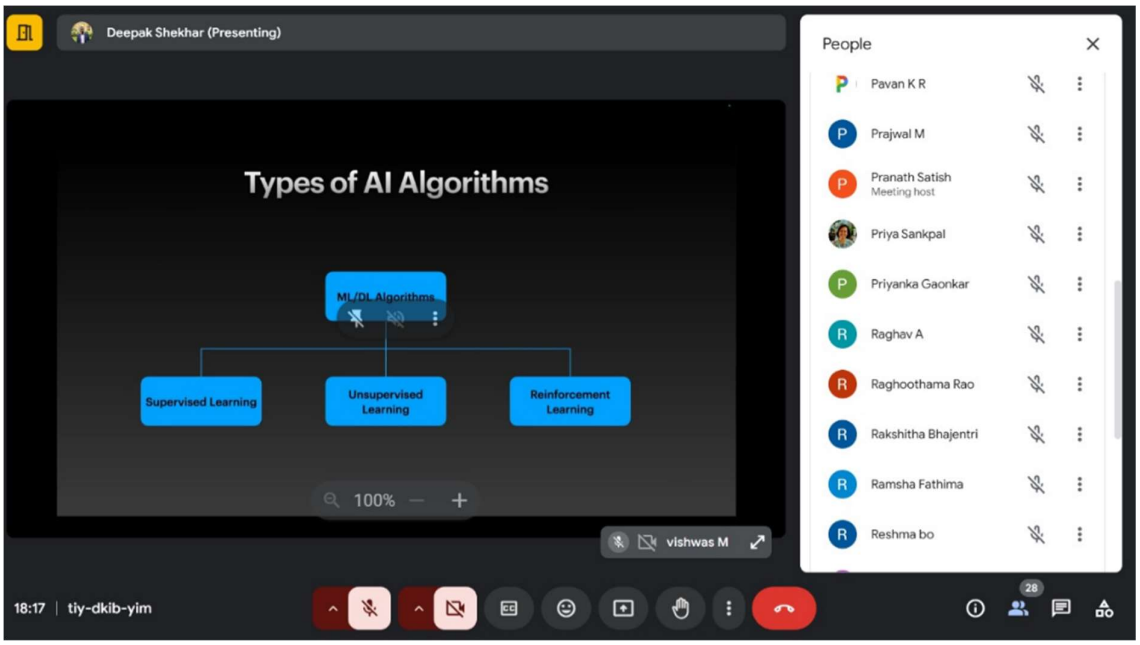
The webinar revolved around AI and its applications in Medical Imaging. Mr. Shekhar began by discussing the basic definitions of Artificial Intelligence, Machine Learning and Deep Learning explaining the historic evolution of AI. He further explained about different types of AI algorithms.

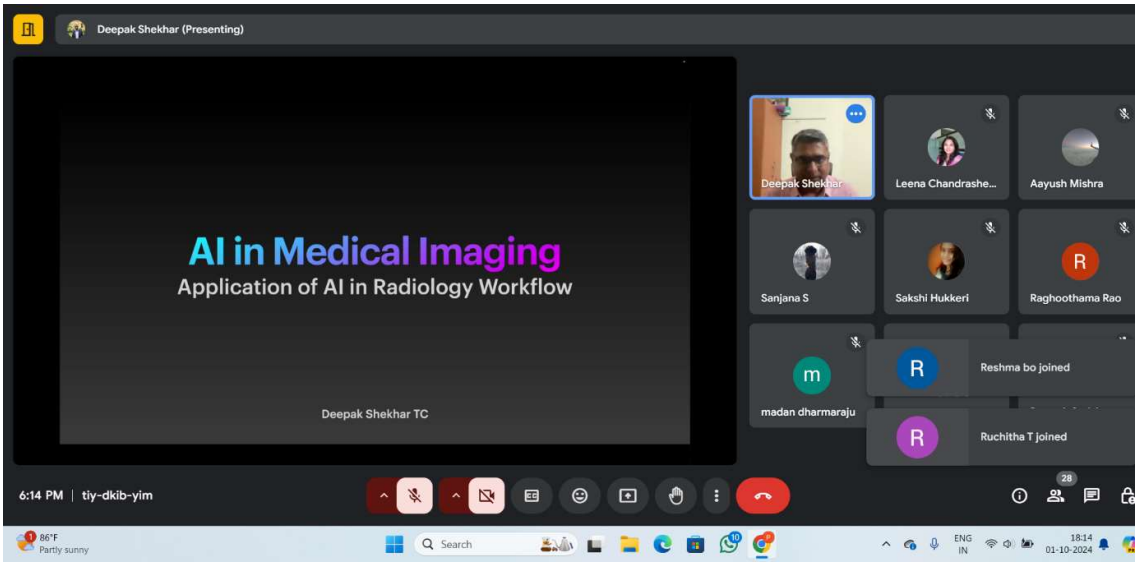
He gave insights into detailed medical imaging workflow and typical steps in image acquisition. He discussed about application of AI in various scanning techniques such as MRI, CT scan, ultrasound and so on. He also discussed about the needs of customers and how AI platforms are helping meet those needs.

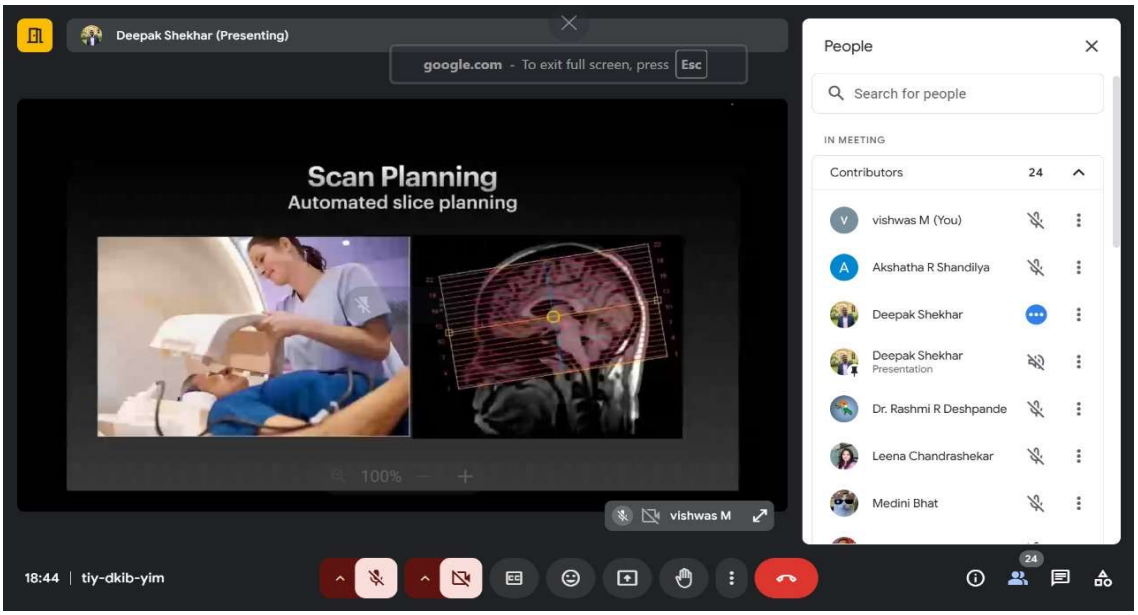
He explained the role of AI in medical imaging and scanning techniques by taking an example of 3D camera based patient positioning used for MRI imaging, CT scan. He also explained about scan planning using AI in recent days.

He further gave insights on ow different medical conditions are detected, especially tumors using AI technology as a part pf advanced scanning techniques and how it supports doctors in taking clinical decisions. He also emphasized on evolving AI platforms developed by some companies like Philips, Siemens and so on for medical imaging tasks. He talked about how the platforms should be ethical and accurate and also how the developers should be answerable to government in case of any adverse effects.


Deepak Shekhar (Presenting)
Contents
AI - Terminologies
Medical Imaging Workflow
Customer Needs
Applications of AI
Patient Preparation
Scan Planning
Image Reconstruction
Clinical Decision Support
Protocol Recommendation
Patient Triaging
Predictive Service
Challenges
Deepak Shekhar
Leena Chandrashe...
Sanjana S
Sakshi Hukkeri
madan dharmaraju
19 others
6:14 PM | tiy-dkib-yim


Deepak Shekhar (Presenting)
Types of AI Algorithms
ML/DL Algorithms
Supervised Learning
Unsupervised Learning
Reinforcement Learning
100%
vishwas M
People
Pavan K R
Prajwal M
Pranath Satish
Meeting host
Priya Sankpal
Priyanka Gaonkar
Raghav A
Raghoothama Rao
Rakshitha Bhajentri
Ramsha Fathima
Reshma bo
18:17 | tiy-dkib-yim


Deepak Shekhar (Presenting)
AI in Medical Imaging
Application of AI in Radiology Workflow
Deepak Shekhar TC
Deepak Shekhar
Leena Chandrashe...
Aayush Mishra
Sanjana S
Sakshi Hukkeri
Raghoothama Rao
madan dharmaraju
Reshma bo joined
Ruchitha T joined
6:14 PM | tiy-dkib-yim


Deepak Shekhar (Presenting)
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Scan Planning
Automated slice planning
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Akshatha R Shandilya
Deepak Shekhar
Deepak Shekhar
Presentation
Dr. Rashmi R Deshpande
Leena Chandrashekar
Medini Bhat
18:44 | tiy-dkib-yim