

# Faculty Development Programme on Research Trends in ML based Signal Processing

Organized by  
Department of Electronics & Communication Engineering, College of Engineering Trivandrum  
**Programme schedule**

29-01-2024 Monday	09:00 a.m. -09:30 a.m.	REGISTRATION	
	09:30 a.m. - 10:45 a.m.	Inaugural Session Chief Guest – <b>Dr. Sriram Ganapathy</b> Associate Professor, LEAP lab, Electrical Engg.IISc, Bangalore Google Research India, Bangalore	
	10:45 a.m.-11:00 a. m. -TEA BREAK		
	11:00 a. m. -12:45 p.m.	Train, baby, Train. But do you know what your models have learned?	<b>Dr. Sriram Ganapathy</b> Associate Professor, LEAP lab, Electrical English, Bangalore Google Research India, Bangalore
	01:00 p.m.- 01:45 p.m. - LUNCH		
	1:45 p.m. to 3:00 p.m.	Generative models for speech synthesis (Hands-on session)	<b>Dr. Jayesh M K</b> Senior Chief Engineer, Samsung Electronics, Bangalore
	3:00 p.m.-3:15 p. m. -TEA BREAK		
	3:15 p.m. to 4:30 p.m.	Generative models for speech synthesis (Hands-on session)	<b>Dr. Jayesh M K</b> Senior Chief Engineer, Samsung Electronics, Bangalore
30-01-2024 Tuesday	09:30 a.m. - 10:45 a.m.	TinyML - Modern Trend in Deep Learning: Complex operations in low-end hardware - Practical Perspective	<b>Dr. Hari R</b> Professor and Head, Dept. of Electronics & Commn. Engg. Govt. Engg. College, Barton Hill, Thiruvananthapuram
	10:45 a.m.-11:00 a. m. -TEA BREAK		
	11:00 a. m. -12:45 p.m.	TinyML - Modern Trend in Deep Learning: Complex operations in low-end hardware - Practical Perspective	<b>Dr. Hari R.</b> Professor and Head, Dept. of Electronics & Commn. Engg. Govt. Engg. College, Barton Hill, Thiruvananthapuram
	01:00 p.m.- 01:45 p.m. - LUNCH		
	1:45 p.m. to 3:00 p.m.	Environmental Sound Classification using Deep Neural Networks (Hands-on-session)	<b>Dr. Suresh K.</b> Principal, Govt. Engg. College, Painav, Idukki
	3:00 p.m.-3:15 p. m. -TEA BREAK		
3:15 p.m. to 4:30 p.m.	Environmental Sound Classification using Deep Neural Networks (Hands-on-session)	<b>Dr. Suresh K.</b> Principal, Govt. Engg. College, Painav, Idukki	

31-01-2024 Wednesday	09:30 a.m. - 10:45 a.m.	Machine Learning in Neuroscience	<b>Dr. Jerrin Thomas Panachakel</b> <i>Assistant Professor, Dept. of Electronics and Commn. Engg., CET</i>
	10:45 a.m.-11:00 a. m. -TEA BREAK		
	11:00 a. m. -12:45 p.m.	Mastery in De-escalating stress	<b>Dr Sreelakha T J</b> <i>Psychologist, Vibrant minds Pangappara</i>
	01:00 p.m.- 01:45 p.m. - LUNCH		
	1:45 p.m. to 3:00 p.m.	Deep learning for Signal Processing applications	<b>Dr. Deepak Misra</b> <i>Professor, Dept. of Avionics Indian Institute of Space Science and Technology, TVPM</i>
	3:00 p.m.-3:15 p. m. -TEA BREAK		
01-02-2024 Thursday	09:30 a.m. - 10:45 a.m.	ML in Music Signal Processing (Hands-on-session)	<b>Dr. Rajeev Rajan</b> <i>Associate Professor, Dept. of Electronics and Commn. Engg. Govt. Engg. College, Barton Hill, TVPM</i>
	10:45 a.m.-11:00 a. m. -TEA BREAK		
	11:00 a. m. -12:45 p.m.	ML in Music Signal Processing (Hands-on-session)	<b>Dr. Rajeev Rajan</b> <i>Associate Professor, Dept. of Electronics and Commn. Engg. Govt. Engg. College, Barton Hill, TVPM</i>
	01:00 p.m.- 01:45 p.m. - LUNCH		
	1:45 p.m. to 3:00 p.m.	Deployment of DL Algorithms on Embedded Systems-A Practical Approach	<b>Mr. Srijith C S</b> <i>Senior Project Executive, Head QA/ Engineering</i> <b>Dr. Revathy Sivanandan</b> <i>Engineer, Engineering Keltron Traffic Signals Division</i>
	3:00 p.m.-3:15 p. m. -TEA BREAK		
02-02-2024 Friday	09:30 a.m. - 10:45 a.m.	Semi-supervised and weakly supervised methods for Semantic segmentation	<b>Dr. Deepu Vijayasenan</b> <i>Associate Professor, Dept. of Electronics and Communication Engg., NITK, Surathkal</i>
	10:45 a.m.-11:00 a. m. -TEA BREAK		
	11:00 a. m. -12:45 p.m.	Semi-supervised and weakly supervised methods for Semantic segmentation	<b>Dr. Deepu Vijayasenan</b> <i>Associate Professor, Dept. of Electronics and Communication Engg., NITK, Surathkal</i>
	01:00 p.m.- 01:45 p.m. - LUNCH		
	1:45 p.m. to 3:00 p.m.	Real time object detection using Jetson nano - a case study	<b>Dr. Santhoshkumar S</b> <i>Professor &amp; PG Dean Govt. Engg. College, Idukki</i>
	3:00 p.m.-3:15 p. m. -TEA BREAK		
	3:15 p.m. to 4:30 p.m.	<b>Feedback/Valedictory function</b>	