Faculty Development Programme on
Research Trends in ML based Signal Processing

Organized by
Department of Electronics & Communication Engineering, College of Engineering Trivandrum

Programme schedule

Date	Time	Session	Speaker
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 – **Dr. Sriram Ganapathy** *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?**	**Dr. Sriram Ganapathy,** *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)**	**Dr. Jayesh M K** *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)**	**Dr. Jayesh M K** *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**	**Dr. Hari R** *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**	**Dr. Hari R.** *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)**	**Dr. Suresh K.** *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)**	**Dr. Suresh K.** *Principal, Govt. Engg. College, Painav, Idukki*
31-01-2024 Wednesday	09:30 a.m. - 10:45 a.m.	**Machine Learning in Neuroscience**	**Dr. Jerrin Thomas Panachakel** *Assistant Professor, Dept. of Electronics and Commn. Engg.,CET*
		10:45 a.m.-11:00 a. m. -TEA BREAK	
	11:00 a. m. -12:45 p.m.	**Mastery in De-escalating stress**	**Dr Sreelakha T J** *Psychologist, Vibrant minds* *Pangappara*
		01:00 p.m.- 01:45 p.m. - LUNCH	
	1:45 p.m. to 3:00 p.m.	**Deep learning for Signal Processing applications**	**Dr. Deepak Misra** *Professor, Dept. of Avionics* *Indian Institute of Space Science and Technology, TVPM*
		3:00 p.m.-3:15 p. m. -TEA BREAK	
	3:15 p.m. to 4:30 p.m.	**Deep learning for Signal Processing applications**	**Dr. Deepak Misra** *Professor, Dept. of Avionics* *Indian Institute of Space Science and Technology, TVPM*
01-02-2024 Thursday	09:30 a.m. - 10:45 a.m.	**ML in Music Signal Processing (Hands-on-session)**	**Dr. Rajeev Rajan** *Associate Professor, Dept. of Electronics and Commn. Engg. Govt. Engg. College, Barton Hill, TVPM*
		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)**	**Dr. Rajeev Rajan** *Associate Professor, Dept. of Electronics and Commn. Engg. Govt. Engg. College, Barton Hill, TVPM*
		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**	**Mr. Srijith C S** *Senior Project Executive, Head QA/ Engineering* **Dr. Revathy Sivanandan** *Engineer, Engineering* *Keltron Traffic Signals Division*
		3:00 p.m.-3:15 p. m. -TEA BREAK	
	3:15 p.m. to 4:30 p.m.	**Inspiring students in the classroom**	**Dr. Joju John** *Assistant Professor, Mar Theophilus Training College, TVPM*
02-02-2024 Friday	09:30 a.m. - 10:45 a.m.	**Semi-supervised and weakly supervised methods for Semantic segmentation**	**Dr. Deepu Vijayasenan** *Associate Professor, Dept. of Electronics and Communication Engg., NITK, Surathkal*
		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**	**Dr. Deepu Vijayasenan** *Associate Professor, Dept. of Electronics and Communication Engg., NITK, Surathkal*
		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**	**Dr. Santhoshkumar S** *Professor & PG Dean* *Govt. Engg. College, Idukki*
		3:00 p.m.-3:15 p. m. -TEA BREAK	
	3:15 p.m. to 4:30 p.m.	**Feedback/Valedictory function**	

for updates visit the FDP webpage https://relu6.github.io