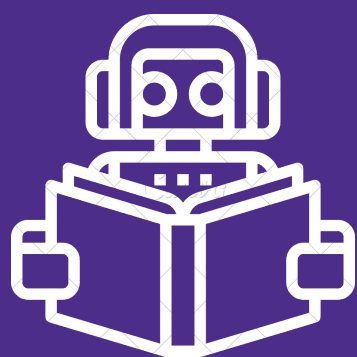


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ELECTRONICS AND COMMUNICATION ENGINEERING**

Cordially invites you for a webinar on

**” MACHINE LEARNING AND SIGNAL PROCESSING (MLSP)
IN APPLIED ENGINEERING AND TECHNOLOGY ”**



SHANTHABABU PANDIAN

*Cognizant Technology Solutions
[Manager – Projects]*



CONVENOR:

Dr.S.Muthukumar, HOD, ECE

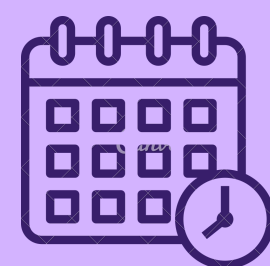
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PROFILE

Shanthababu has 17+ years of experience in Information Technology (IT). Almost 8+ yrs. as Data & Analytics Technical Delivery Management. Development/Enhancement/Scrum/Support management/ Release/ Environment/ ITIL Service Managements and Client interaction. People management, Project Financial / Operations management, and People management.

On top of this creating YouTube Channels, Writing Technical and Project Management related blogs. Data Science and Machine Learning course designer for Engineering college and Online Training and workshop on technical topics.

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Watching and Playing cricket
Writing technology articles
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Post Graduate Certification in Data Science

IIT Guwahati (In-Progress)

Master of Science in Software Engineering

BITS Pilani

Master of Business Applications in Systems Specialization

Madurai Kamaraj University, Tamil Nadu

Master of Technology in Polymer Engineering, Insulation Specialization

Anna University, Chennai, Tamil Nadu

Bachelor of Engineering in Electronics and Communication

University of Madras, Chennai, Tamil Nadu

WORK EXPERIENCE

Cognizant Technology Solutions [Manager - Projects]

June 2004 to till date

SKILLS

Project Management

- Agile Delivery Management
- Data & Analytics Technical Delivery Management.
- Service Management ITIL

Technology

- Microsoft Technology - .Net, Microsoft SQL server
- MSBI (SSIS, SSRS), Tubule, PowerBI
- Data Science and Machine Learning
- Python, PySpark, PyTorch, Keras and TensorFlow
- BigData Eco Systems (HDFS, Sqoop, Flume, Hive and Spark ML)
- Azure - ADF, ADB, ADLS and others

Professional Certification

Management Certification

- Certified Scrum Master - Scrum Alliance
- Agile Scrum Master - EXIN
- ITIL - Foundation in ITSM

Technical Certification

- IBM Data Science Professional Certificate
- Certified Machine Learning Engineer - from Edureka
- Certified Data Scientist - from Edureka
- Azure DevOps - from Udemy
- Microsoft Azure Certification Training - Scientist - from Edureka
- Advanced Predictive Modelling using Python - from Edureka
- Microsoft Certified Database Administrator (MCDBA) for SQL Server
- Microsoft Certified Solution Developer (MCSO) for Microsoft .NET,

Accolades and Awards

- Idea Champion (2012) And Innovation Champion (2013)
- Awarded Best Innovation Champion Award 2012.
- Best Mentor Manager 2014

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Attendance Sheet for One day Webinar on "Machine Learning and Signal Processing inn Applied Engineering and Technology"DATE:14-06-2021

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Dr.R.Gayathri




Event Co-ordinator



Dr.S.Muthukumar

HOD-EC

**SRI VENKATESWARA COLLEGE OF ENGINEERING (SVCE)
PENNALUR, SRIPERUMBUDUR-602117**

	<p style="text-align: center;">Department of Electronics and Communication Engineering</p>	 <p style="text-align: center;">INSTITUTION'S INNOVATION COUNCIL <small>(Ministry of HRD Initiative)</small></p>	 <p style="text-align: center;"><small>ISO 9001:2015 Certified by IRQS</small></p> <p style="text-align: center;"><small>MGMT. SYS. RvA C 071</small></p>
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Webinar Report

Date: 14 June 2021

Time: 10.00 am to 12.00 pm

The Department of Electronics and Communication Engineering, Sri Venkateswara College of Engineering organized a webinar on “Machine Learning and Signal Processing in Applied Engineering and Technology” by Mr. Shanthababu Pandian, Project Manager, Cognizant Technology Solutions, Chennai. Dr. S. Muthukumar, Head of the Department of Electronics and Communication Engineering addressed the gathering and gave the welcome address. The Chief Guest was introduced to the gatherings by Dr. R. Gayathri, Associate Professor. The Chief guest preside over the function and delivered the technical talk on the machine learning and signal processing with its recent applications.

Speaker briefed the session with the following Points which includes signal processing and image processing applications, Multichannel automatic speech recognition (ASR) systems separate speech enhancement, including localization, beamforming, and postfiltering, from acoustic modeling. A neural network architecture, which performs multichannel filtering in the first layer of the network, and show that this network learns to be robust to varying target speaker direction of arrival, performing as well as a model that is given oracle knowledge of the true target speaker direction.

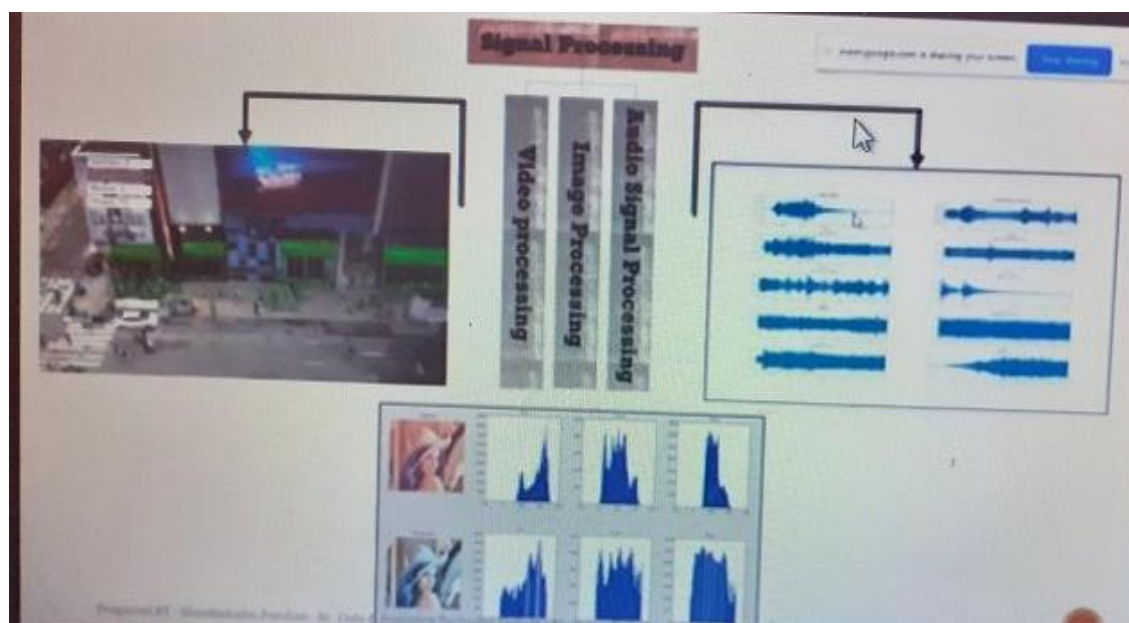


DSP Applications:

DSP applications include **audio and speech** processing, sonar, radar and other sensor array processing, spectral density estimation, statistical signal processing, digital image processing, data compression, video coding, audio coding, image compression, signal processing for telecommunications.

Multi scale Signal Processing:

By taking and analyzing measurements in vast quantities, engineers are working toward a better understanding of how physiological systems work. A lot of effort is currently focused on multi-scale signal processing; looking for features in the measurements that are taken at varying scales in order to make more reliable predictions about the whole patient. Biomedical signal processing encompasses the entire spectrum of health and wellness. It is the basis of how engineering aids the field of medicine.



Medical Applications

The human body is comprised of several systems working together in a closed loop and programmed to preserve life. Set points in the brain work to continually monitor and respond to internal and external influences to regulate body temperature. The heart rate varies in response to the autonomic nervous system, which acts as a feedback system, directing the heart to make adjustments according to the body's level of exertion.

Biomedical signal processing could lead to better and more timely diagnosis and treatment of a disease such as Alzheimer's. Researchers are combining EEG readings with other testing parameters to try to detect patterns that will distinguish Alzheimer's patients from those with other forms of dementia.

Around 150 Participants registered for the event .Vote of thanks delivered by Mrs.Rajeswari Ramaraj,Asst.Prof. On behalf of the Department of ECE, the coordinators and organizers expressed their

gratitude to the Head of the Department, and Participants across various colleges. We express our deep sense of gratitude to our Management and Dr.M.Sivanadham, Secretary, SVEHT for the constant support and guidance for all the activities of the ECE Department.

Event Co-ordinators:

Dr.R.Gayathri,Asso.Prof

Mr.S.P. Sivagnana Subramanian,Asst.Prof

Mrs.R.Rajeswari,Asst.Prof

Mrs. S.M. Mehzabeen,Asst.Prof



Dr.R.Gayathri

Event Co-ordinator



Dr.S.Muthukumar

HOD-EC

Feedback Received from the Participants

Timestamp	Title	Name of th	Designation	Department	Name of the	Category	Mobile No.	Email id	Feedback
2021-06-14	Mr.	Selvamani	AP	CSE	SVCE	Faculty	9789592509	pselvamani@svce.ac.in	Good
2021-06-14	Mrs.	L Anju	Assistant Prof	ECE	Sri Venkates	Faculty	9840159602	anju@svce.ac.in	EXCELLENT SESSION
2021-06-14	Mrs.	R	Assistant Prof	Computer Scien	Sri Venkates	Faculty	9894802344	gayathri@svce.ac.in	Eye opening session .
2021-06-14	Mr.	R	Assistant prof	ECE	Veltech Rang	Faculty	9791511522	sribalaji24@gmail.com	EXCELLENT SESSION
2021-06-14	Mrs.	A. V.	Assistant Prof	Information Tec	MAHATMA	Faculty	9.1985E+11	avlakshmiprasuna_it@mgit.ac.in	Good session
2021-06-14	Ms.	D.Menaka	Assistant Prof	Electronics and	Sri Venkates	Faculty	9655955257	menaka@svce.ac.in	Informative Session on Data Science, ML & DL
2021-06-14	Dr.	Praveenku	Professor	ECE	Saveetha	Faculty	9894921193	praveenkumar@saveetha.ac.in	Nil
2021-06-14	Mr.	V.R.VIMAL	Assistant Prof	Information Tec	Sri Venkates	Faculty	9486192848	vimalraman2004@gmail.com	Eye opening session on ML & DL
2021-06-14	Mr.	Senthilvela	Assistant Prof	Mechanical	Sri Venkates	Faculty	9884773837	senthilvelan@svce.ac.in	Good
2021-06-14	Dr.	Kalaivani	Asso Prof	ECE	Saveetha	Faculty	9487556114	kalaivani@saveetha.ac.in	No
2021-06-14	Dr.	Sudha G	Associate Pro	Chemical engin	SVCE	Faculty	9884095439	sudha@svce.ac.in	Good
2021-06-14	Ms.	SATHYA	Assistant Prof	ECE	RAJALAKSH	Faculty	9790345533	sathya.r@rajalakshmi.edu.in	Quite informative session
2021-06-14	Mr.	SENTHILK	AP	CSE	SVCE	Faculty	9629250575	senthilkumar_r@svce.ac.in	Nil
2021-06-14	Dr.	N G	Associate Pro	ECE	R.M.K.	Faculty	9941410465	drpraveenang@gmail.com	Gud
2021-06-14	Dr.	Balaji L	Associate Pro	Electronics and	Vel Tech	Faculty	9940456643	maildhanabal@gmail.com	Session was too informative.
2021-06-14	Dr.	Thilakavat	Professor	ECE	Rajalakshmi	Faculty	9840665047	thilakavathi.b@rajalakshmi.edu.in	Everything is perfect
2021-06-14	Mrs.	Brenda M	Assistant Prof	Electronics and	Vel Tech	Faculty	8072246805	brendam@veltech.edu.in	Nil
2021-06-14	Dr.	Vinay Kum	Director/Prin	CSE	South Point	Faculty	9215348268	vinay_nassa@rediffmail.com	No one
2021-06-14	Ms.	K	Assistant Prof	ECE	Sri Sairam	Faculty	9566076421	subhashini.ece@sairam.edu.in	Very informative
2021-06-14	Ms.	Khanagha	Assistant Prof	Department of	Sri Venkates	Faculty	8870688044	khanaghavalle@svce.ac.in	Good
2021-06-14	Ms.	Yazhini.G	Student	CSE	Veltech Univ	Student	9677470400	yazhiniganesamoorthy@gmail.com	NA
2021-06-14	Mrs.	D AMUDH	ASSISTANT	EEE	SRI	Faculty	9789856567	amudhavalli@svce.ac.in	It was a great session and very much informative.
2021-06-14	Mrs.	D. Indumati	AP(SG)	ECE	Rajalakshmi	Faculty	9791182529	indumathy.d@rajalakshmi.edu.in	Nil
2021-06-14	Ms.	S	Assistant Prof	Computer Scien	Sri Venkates	Faculty	9047560110	sraji@svce.ac.in	More examples for each topic discussed
2021-06-14	Dr.	S. Chitra	Professor	ECE	Rajalakshmi	Faculty	9894956826	chitra.s@rajalakshmi.edu.in	Good sttp
2021-06-14	Mr.	Aditya Prat	Assistant Prof	Automobile Eng	UIT RGPV	Faculty	9669309198	aaditya.singh20@gmail.com	No
2021-06-14	Mr.	Aathmane	Assistant Prof	ECE	Vel Tech	Faculty	8998345673	aathmanesant@veltech.edu.in	Excellent
2021-06-14	Ms.	Anjaline ja	Assistant Prof	ECE	Saveetha	Faculty	9626474152	anjalinejayapraba@saveetha.ac.n	Informative session
2021-06-14	Dr.	Senthil	Associate pro	Electronics and	St.josephs co	Faculty	9442410672	vlrsenthil@gmail.com	No
2021-06-14	Mr.	Harish Ven	Assistant Vice	Risk Transforma	HSBC	Industry	7387633933	venkatramharish@gmail.com	Very informative session.
2021-06-14	Mr.	G.VENKA	ASSISTANT	DEPARTMENT	PANIMALAR	Faculty	9710796080	venkateshgeie@gmail.com	Good session
2021-06-14	Mr.	PRASANN	STUDENT	ECE	SVCE	Student	6369560951	titanprasanna@gmail.com	Good
2021-06-14	Mr.	G.vignesh	B.TECH	Electronic and c	Bharath Univ	Student	9790750648	vigneshkarthick101@gmail.com	Excellent
2021-06-14	Dr.	T.G.Sakthi	Associate Pro	Mechanical Eng	Panimalar	Faculty	7010886755	tgsakthivel76@gmail.com	Great session
2021-06-14	Mr.	SURAJ	Student	Computer Engin	Shivajirao S.	Student	7208631944	sy929611@gmail.com	Good session
2021-06-14	Mr.	Krishnanar	Research sch	CSE	Kalasalinga	Research	9790219724	Krishna.narayanan08@gmail.com	Good work
2021-06-14	Mr.	VIJAY M	Assistant Prof	ECE	SRM TRP	Faculty	8940167544	vijay.m@trp.srmtrichy.edu.in	Excellent
2021-06-14	Mr.	Haranvign	Final year stu	Electronics and	Sri Sairam	Student	9444836197	vicky1999.s@gmail.com	Good
2021-06-14	Mr.	M.VEDAR	ASSISTANT	CSE	R.M.D. ENGI	Faculty	7904242083	vedaraj84@gmail.com	No
2021-06-14	Ms.	S. Selva	Research Sch	Computer Scien	Kalasalinga	Research	9486096188	sbirunda@gmail.com	Session was enthusiastic.
2021-06-14	Dr.	Sundar Ga	Assistant prof	EEE	Karpagam	Faculty	6379406590	sundarganesh.cs@kce.ac.in	Session was enthusiastic.
2021-06-14	Mrs.	Vaissnave.	Research sch	CSE	Kalasalinga	Research	8056784572	Vaissnave@gmail.com	Very useful
2021-06-14	Mrs.	M. Jeya	Phd scholar	Cse	Kalasalinga	Research	8248811447	jeyasundari.srivi@gmail.com	No
2021-06-14	Dr.	Dr.	Assistant Prof	ECE	SRM VALLIA	Faculty	19884435725	sureshkumarv.ece@valliammai.co.in	Informative session
2021-06-14	Mr.	Selvamani	Assistant Prof	CSE	SVCE	Faculty	9789592509	pselvamani@svce.ac.in	NA
2021-06-14	Dr.	AMEELIA	PROFESSOR	ECE	PANIMALAR	Faculty	9444512820	ameeliaroseline1@gmail.com	Day 1 was awesome and informative. Hoping the
2021-06-14	Dr.	N.Suthanth	Professor	EEE	Muthayamm	Faculty	9965531515	suthanthira.n.eee@mec.edu.in	...
2021-06-14	Ms.	SATHYA	Assistant Prof	ECE	RAJALAKSH	Faculty	9790345533	sathya.r@rajalakshmi.edu.in	Very informative session. Thank you all for
2021-06-14	Mr.	Venkata	Asst.Professo	Biomedical Engi	Vel Tech Mul	Faculty	9790929160	venky806@gmail.com	Nil
2021-06-14	Mr.	V.NARASI	Lecture	MATHS	AGASTHIYA	Faculty	6380148072	narasimman313@gmail.com	Wonderful
2021-06-14	Mrs.	P.SUBHA	Assistant prof	ECE	Einstein	Faculty	8754624344	subhapaulson@gmail.com	Nice session
2021-06-14	Mrs.	D.Narmath	Assistant Prof	Electronics and	Einstein colle	Faculty	9976642876	niranjnarmi@gmail.com	Todays topic was very informative

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2021-06-14	Mrs.	SHAHEEN	Research Sch	Computer scien	Sri Krishna	Research	9846551548	shaheenakv@gmail.com	Informative
2021-06-14	Dr.	T.	Assistant Prof	Computer Scien	IFET College	Faculty	9994704403	tananthkumar@ifet.ac.in	Nice
2021-06-14	Mr.	Sudipta Ch	Laboratory In	ECE.	MCKV Institu	Faculty	8910169379	sudiptachakravarti@rocketmail.com	Very informative session
2021-06-14	Ms.	Sakshi	Student	Computer Engin	Dr d y patil	Student	9422011577	sakshissanap@gmail.com	No
2021-06-14	Mr.	Suyash dat	Student	Computer Engin	Dr d y patil	Student	7057829290	suyashbig98@gmail.com	Very informative session



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Event Co-ordinator



Dr.S.Muthukumar
HOD-EC



SRI VENKATESWARA COLLEGE OF ENGINEERING
Autonomous-Affiliated to Anna University
Department of Electronics and Communication Engineering

Certificate of participation

This is presented to

S. M. Mehzabeen , Assistant Professor

for participating in the webinar on "MACHINE LEARNING AND
SIGNAL PROCESSING (MLSP) IN APPLIED ENGINEERING AND
TECHNOLOGY" conducted by Department of Electronics and
Communication Engineering on 14-06-2021.

Dr. R.GAYATHRI
Associate Professor - ECE

Dr. S. MUTHUKUMAR
HOD - ECE