



# SRI VENKATESWARA COLLEGE OF ENGINEERING

An Autonomous Institution - Affiliated to Anna University  
Sriperumbudur Taluk - 602 117



## Five days Hands-On International Short Term Training Program on "Deep Learning Applications" (19.10.2020 - 23.10.2020)

Organized by

Department of Electronics & Communication Engineering



### RESOURCE PERSONS



**Machine Learning – Linear Progression to Deep Linear Model from Industry Point of View**

**Mr. Shanthababu Pandian**  
Project Manager,  
Cognizant Technology Solutions,  
Chennai.



**19.10.2020**  
10.00AM - 12.00PM



**20.10.2020**  
10.00AM - 12.00PM

**Machine Learning in Health Care Systems**

**Dr. Hemalatha**  
Assistant Professor -IT Dept,  
Ibri College of Applied Sciences,  
Oman.



**Convergence of Machine Learning and Brain Computer Interfaces**

**Dr. Meenalosini Vimal Cruz**  
Founder/Director BCI-AI Lab, KSC,  
Department of Computer Science,  
Keene State College,  
Keene, 03435,  
New Hampshire, USA.



**21.10.2020**  
03.00PM - 04.30PM



**22.10.2020**  
10.00AM - 12.00PM

**Clustering Techniques**

**Dr. Shamila Ebenezer,**  
Assistant Professor, Computer Science and Engineering,  
Karunya Institute of Technology and Sciences  
(Deemed to be University),  
Coimbatore.



**Machine Learning for IoT**

**Dr. Priyadharshini,**  
Assistant Professor, Computer Science and  
Engineering, Karunya Institute of  
Technology and Sciences  
(Deemed to be University), Coimbatore.



**23.10.2020**  
10.00AM - 12.00PM

#### CHIEF PATRON

**Dr. S. GANESH VAIDYANATHAN, PRINCIPAL**

#### COORDINATORS

**CONVENOR Dr. S. MUTHUKUMAR**

Head of the Department, ECE

**For registration click here**

<https://forms.gle/k3yeqMqxt7L8sf8A> Dr. R. GAYATHRI, ASSOCIATE PROFESSOR/ECE Mr. S. P. SIVAGNANA  
SUBRAMANIAN, AP/ECE Ms. RAJESWARI RAMARAJ, AP/ECE Ms. S. M. MEHZABEEN, AP/ECE  
Ms. A. BHARATHIPRIYA, AP/ECE



Windows taskbar: Viva marks-Draft - spsvagnan..., Meet - Five days FDP on Ma..., EC16703 Embedded and Real Tim..., (13) WhatsApp

Browser tabs: meet.google.com/oum-cgya-ipy

Meeting title: Mrs. RAMALAKSHMI K. 693 is presenting

Five days FDP on Machine Learning ...

People (67)

Chat

Manal Ayeed 11:27 AM  
What about feedback link please

RAJESWARI R ECE 11:28 AM  
Feedback link will be posted at the end of session

Manal Ayeed 11:29 AM  
Thanks

Partha Sarker 11:47 AM  
very nice lecture.

You 11:47 AM  
Thanks for your compliment sir.

Send a message to everyone

Taskbar: Meet attendance - (...C...), Meet attendance - (...C...), Meet attendance - (...C...), Meet attendance - (...C...), Meet attendance - (...C...)

System tray: 11:47 AM, 9/23/2020

Windows taskbar: Viva marks-Draft - spsvagnan..., Meet - Five days FDP on Ma..., EC16703 Embedded and Real Tim..., (12) WhatsApp

Browser tabs: meet.google.com/oum-cgya-ipy

Meeting title: Mrs. RAMALAKSHMI K. 693 is presenting

Abdullahi Adinoyi Ibr... and 53 more

11:40 AM

Localhost: 5881/mimodoc/v/mimodoc/jupyter

jupyter mimodoc Last Download: Last Friday at 2:00 PM (Last saved: changed)

```
In [8]: data = pd.read_csv('9/21-1ct/covid19.csv')
data.head(5)
```





	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigreeFunction	Age	Outcome
0	6	148	72	35	0.167	35.1	0.671	33	1
1	1	85	66	29	0.198	26.3	0.351	29	0
2	3	183	66	0	0.232	0	0.412	32	1
3	1	89	66	23	84	23.1	0.167	21	0
4	2	137	40	26	168	43.1	0.228	33	1

```
In [9]: plt.boxplot(data.age)
plt.show()
```

Taskbar: Meet attendance - (...C...), Meet attendance - (...C...), Meet attendance - (...C...), Meet attendance - (...C...), Meet attendance - (...C...)

System tray: 11:40 AM, 9/23/2020



	Department of Electronics and Communication Engineering	 INSTITUTION'S INNOVATION COUNCIL <small>(Ministry of HRD Initiative)</small>	<u>To</u>  ISO 9001:2015 Certified by IQS  RVA C 071
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### STTP Report

Date: 19.10.2020 to 23.10.2020 Time: 10.00 am to 12.00 pm

**The Department of Electronics and Communication Engineering, Sri Venkateswara College of Engineering organized a 5 days International Short term training program on Deep Learning and its Application with the resource persons of Dr.R.Venkatesan, Assistant Professor, Karunya University, Dr.B.Hemalatha, Assistant Professor, college of Arts and Sciences, Ibri.**

**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 Deep 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.

### Visual Recognition

Putting in manual effort was the only way to accomplish this in the absence of metadata. The maximum could do was sort them out based on dates but downloaded images lack that metadata sometimes. In comes, Deep Learning and now images can be sorted based on locations detected in photographs, faces, a combination of people, or according to events, dates, etc. Searching for a particular photo from a library (let's say a dataset as large as Google's picture library) requires state-of-the-art visual recognition systems consisting of several layers from basic to advanced to recognize elements. Large-scale image Visual recognition through deep neural networks is boosting growth in this segment of digital media management by using convolutional neural networks, Tensorflow and Python extensively.

### Health Care:

According to NVIDIA "From medical imaging to analyzing genomes to discovering new drugs, the entire healthcare industry is in a state of transformation and GPU computing is at the heart. GPU-accelerated applications and systems are delivering new efficiencies and possibilities, empowering physicians, clinicians, and researchers passionate about improving the lives of others to do their best work." Helping early, accurate and speedy diagnosis of life-threatening diseases,

augmented clinicians addressing the shortage of quality physicians and healthcare providers, pathology results and treatment course standardization, and understanding genetics to predict future risk of diseases and negative health episodes are some of the Deep Learning projects picking up speed in the Healthcare domain. Readmissions are a huge problem for the healthcare sector as it costs tens of millions of dollars in cost. But with the use of deep learning and neural networks, healthcare giants are mitigating health risks associated with readmissions while bringing down the costs. AI is also being exceedingly being used in clinical researches by regulatory agencies to find cures to untreatable diseases but physicians scepticism and lack of a humongous dataset are still posing challenges to the use of deep learning in medicine.

Around 150 Participants registered for the event .Vote of thanks delievered 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.

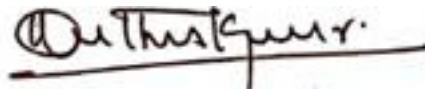
Event Co-ordinators:

Dr.R.Gayathri,Asso.Prof

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

Mrs.R.Rajeswari, Asst.Prof

Mrs. S.M. Mehzabeen,Asst.Prof



Head of the Department  
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9/5/2020 12:17:33 dhanasekar.j@sece.ac.in	1 / 1
9/5/2020 12:17:54 kousi@svce.ac.in	1 / 1
9/5/2020 12:17:57 rgopalkarur@gmail.com	1 / 1
9/5/2020 12:18:02 menaka@svce.ac.in	1 / 1
9/5/2020 12:18:14 karthi.lnpg@gmail.com	1 / 1
9/5/2020 12:18:15 kumarathan@svce.ac.in	1 / 1
9/5/2020 12:18:17 e8ic004@sairamtap.edu.in	1 / 1
9/5/2020 12:18:43 mail2ramkumar1@gmail.com	1 / 1
9/5/2020 12:18:52 bharathipriya@svce.ac.in	1 / 1
9/5/2020 12:19:05 cgomathi@svce.ac.in	1 / 1
9/5/2020 12:19:06 rathi.priyanka5@gmail.com	1 / 1
9/5/2020 12:19:31 sujithasubramani96@gmail.com	1 / 1
9/5/2020 12:19:32 gbsandhiyaeece81@gmail.com	1 / 1
9/5/2020 12:19:40 ssgomathi@gmail.com	1 / 1
9/5/2020 12:19:47 keerthanaeece20@gmail.com	1 / 1
9/5/2020 12:19:50 anju@svce.ac.in	1 / 1
9/5/2020 12:20:01 mohan-ece@saranathan.ac.in	1 / 1
9/5/2020 12:20:19 ashaeece@yahoo.co.in	1 / 1
9/5/2020 12:20:27 mullaisuresh2001@gmail.com	1 / 1
9/5/2020 12:20:54 arvenmathi@gmail.com	1 / 1
9/5/2020 12:21:02 ssvlakshmi@yahoo.co.in	1 / 1
9/5/2020 12:21:06 kalaish123@gmail.com	1 / 1
9/5/2020 12:23:06 venkatsyraman@gmail.com	1 / 1
9/5/2020 12:23:15 arulp@svce.ac.in	1 / 1
9/5/2020 12:23:32 srivi@svce.ac.in	1 / 1
9/5/2020 12:24:18 gbsandhiyaeece81@gmail.com	1 / 1
9/5/2020 12:24:24 pdayanidhi@yahoo.com	1 / 1
9/5/2020 12:24:45 rajeshwarigajendran96@gmail.com	1 / 1
9/5/2020 12:25:21 jprabha@svce.ac.in	1 / 1
9/5/2020 12:26:02 keerthusankar75@gmail.com	1 / 1
9/5/2020 12:28:06 kaviyarasum7@gmail.com	1 / 1
9/5/2020 12:28:38 kaviyarasum7@gmail.com	1 / 1
9/5/2020 12:30:31 sivakamistar@yahoo.co.in	1 / 1

Dhanasekar.J	Assistant Professor	Sri Eshwar College of Engineering
R. KOUSALYA	Assistant Professor	SVCE
Dr. Gopal Rathinam	Assistant Professor	University of Buraimi
D.Menaka	Assistant Professor	Sri Venkateswara college of Engineering
KARTHIKEYAN A	HOD	Jayam Polytechnic college
Dr.N.Kumarathan	Professor	SVCE
KAVIMULLAI S	Student	Sri SaiRam Engineering College
V.RAMKUMAR	Assistant Professor	R.M.K.Engineering college
A. BHARATHIPRIYA	Assistant Professor	SVCE
C GOMATHEESWARI PR	Assistant Professor	Sri Venkateswara College of Engineering
D S Priyanka	Assistant Professor	V S B Engineering College, Karur
S SUJITHA	ASSISTANT PROFESSOR	VSB ENGINEERING COLLEGE
G B SANDHIYA	STUDENT	OXFORD ENGINEERING COLLEGE
Dr.S.Sankara Gomathi	Professor- Training	Zybeak Technology
S . KEERTHANA	ASSISTANT PROFESSOR	V.S.B ENGINEERING COLLEGE
Ms.L.Anju	Assistant Professor	SVCE
V Mohan	Associate professor	Saranathan College of Engineering
A. ASHA	Associate Professor	Rajalakshmi Engineeering College
Kavimullai S	Student	Sri SaiRam Engineering College
Dr.VENMATHI A R	Associate Professor	Kings Engineering College
Dr.S.VARALAKSHMI	Associate professor	Adhi college of Engineering and technology
K.Kalaichelvi	Ap	VSb engineering college
Venkatraman S	PG Student	Sri Venkateswara College of Engineering
P. ARUL	Assistant Professor	SVCE
K.SRIVIDHYA	Assistant Professor	Sri Venkateswara College of Engineering
G B SANDHIYA	STUDENT	OXFORD ENGINEERING COLLEGE
PAUL DAYANIDHI	Professor in MGM CET	MGM CET-Mahatham Gandhi College of Engineering ;
Rajewari G	PG student	SVCE COLLEGE OF ENGINEERING
Mrs.T J Jeyaprabha	Assistant Professor	Sri Venkaeswara College of Engineering
Keerthana S	PG student	Sri Venkateswara College of Engineering
KAVIYARASU M	Assistant Professor	VSb Engineering College,karur
KAVIYARASU M	Assistant Professor	VSb Engineering College,karur
Dr.T.SIVAKAMI	Former Faculty	SA Engineering college

*R. Sanyalthei*

*De Thirugur*

Head of the Department  
 Electronics and Communication Engineering  
 Sri Venkateswara College of Engineering  
 Sriperumbudur - 602 117. India

and Technology Kamothe





## 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.

## CONTACT

WEBSITE:

<https://www.linkedin.com/in/shanthababu-pandian-b2a9259/>

EMAIL:

[pandian.shanthababu@gmail.com](mailto:pandian.shanthababu@gmail.com)

## HOBBIES

Listening to music  
Watching and Playing cricket  
Writing technology articles  
Cooking

# SHANTHABABU PANDIAN

Manager - Projects

## EDUCATION

### **PG Program in Artificial Intelligence & Machine Learning**

University of Texas, Austin

### **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

