

**SRI VENKATESWARA COLLEGE OF ENGINEERING**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Short term Training Programme**

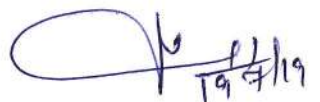
**On**

**Data Science and Machine Learning using Python**

**29<sup>th</sup> April to 3<sup>rd</sup> May, 2019**

**A Report**

Submitted to Principal

  
19/5/19  
HOD IIT

To: HOD-IT  
Noted  
SP  
5/8



# SRI VENKATESWARA COLLEGE OF ENGINEERING

## Department of Information Technology

Ref.: SVCE/IT/STTP/April 2019

12.04.2019

### Submitted to the Principal:

**Subject: Requisition for permission to conduct STTP on Data Science and Machine Learning using Python.**

It is proposed to conduct Short Term Training Program on **Data Science and Machine Learning using Python** for the faculty members by the Department of Information Technology during 29<sup>th</sup> April to 3<sup>rd</sup> May 2019 ( 4 days).

### Objective

- To expose the Faculty/ Research Scholars in emerging technologies in the area of Data Science and Machine learning.
- To provide an exposure to various machine learning techniques using python and derive practical solutions using predictive analytics.

### Venue

The training program will be conducted at the premises of Sri Venkateswara College of Engineering.

### Target Audience

Faculty/ Staff members.

### Resource Person

- Eminent resource persons from reputed academic institutions

### Budget

#### Receipts:

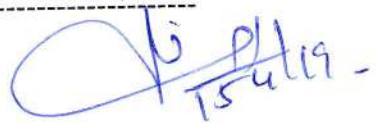
Fee collected per participant : Rs. 750/-  
Number of participants : 30  
Total Fee Collected : 30\*Rs. 750 Rs. 22,500/-

3750

#### Expenses:

Honorarium to visiting Resource Person	: Rs. 6,000/- ✓
Program kit and Stationary	: Rs. 3,500/- ✓
Certificates	: Rs. 500/- ✓
Lunch & refreshments	: <u>Rs. 9,500/-</u> ✓
Snacks & Tea (for all participants)	: Rs. 2,500/- ✓
	-----
	Rs. 22,500/-      Rs. 22,000/- ✓
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It is requested that the proposal may be kindly approved.

  
15/4/19

### Coordinators

Dr. V. Vidhya, Prof & Head/IT  
B.T. Shobana, AP/IT *B.T. Shobana*  
K. Kiruthika Devi, AP/IT *K. Kiruthika Devi*  
P. Sharon Femi, AP/IT *P. Sharon Femi*

HOD/IT i/c  
Dr. V. Vidhya

P.T.O

**SRI VENKATESWARA COLLEGE OF ENGINEERING**

**Department of Information Technology**

**STTP ON DATA SCIENCE AND MACHINE LEARNING USING PYTHON**

**April 29- May 3, 2019**

**SCHEDULE**

<b>Date</b>	<b>08.30-09.45</b>	<b>10.00-11.15</b>	<b>11.15-12.30</b>	<b>Lunch Break</b>	<b>01.00-02.00</b>	<b>02.00-03.00</b>
29/04/2019	Inauguration	Introduction to Data Science and Machine Learning	Statistical learning techniques for predictive modeling (Regression Analysis, Logistic Regression)		Hands –on- Introduction to Python, NumPy, Pandas packages	Hands-on Simple, Linear and Logistic Regression
30/04/2019	Machine learning techniques for predictive modeling (k-nearest neighbour, Naïve Bayes classifier, Decision tree, Support vector machine) with hands-on				Case study 1: Speech Processing	Case study 2: Training CNN for Image processing
02/05/2019	Machine learning techniques for clustering techniques	Neural Networks with hands-on session			Text Mining	Hands-on clustering
03/05/2019	Sentiment Analysis	Case study 3: Activity Recognition in Smart Homes	Conducting test and mini project			Valedictory

*B. T. Jayaram*  
*K. K. H. Jeyaseelan*  
*P. K. Manoj P.*  
**STTP Coordinators**

*Approved*  
*26/4/19*

*[Signature]*  
**HOD/IT**



**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
Pennalur, Sriperumbudur Taluk - 602117

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Solicit your esteemed presence for the**

**Inauguration of**

**Short Term Training Programme**

**on**

**"Data Science and Machine  
Learning using Python"**

**by**

**Dr. C. Anand Babu**

**Professor & TIC- Head**

**Department of Chemical Engineering**

**SVCE**

**Venue : Lab -2, First Floor, IT Block**

**Date : 29th April 2019**

**Time : 9.00AM**



**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
Pennalur, Sriperumbudur Taluk – 602117

**AGENDA**

**DATE : 29.04.19**  
**TIME : 9.00 AM**  
**VENUE : Lab -2, First Floor, IT Block**

- ❖ **Prayer Song**
- ❖ **Welcome Address**
- ❖ **Short note by HOD**
- ❖ **Introduction of Chief Guest**
- ❖ **Inaugural Address by Chief Guest**

**Co-ordinators**

Ms. B.T. Shobana, AP/IT

Ms. K. Kiruthika Devi AP/IT

Ms. P. Sharon Femi , AP/IT



KIRUTHIKA DEVI K IT &lt;kiruthika@svce.ac.in&gt;

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**Fwd: STTP on "Data Science and Machine Learning using Python"**

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**HOD IT** <hodit@svce.ac.in>

Tue, Apr 23, 2019 at 3:43 PM

To: Faculty Group &lt;svcefaculty@svce.ac.in&gt;

Dear Sir/Madam,

We are pleased to inform you that the Department of Information Technology, Sri Venkateswara College of Engineering is organizing a four days Short Term Training Programme on "Data Science and Machine Learning using Python" during April 29 to May 3, 2019.

Herewith attached is the program brochure.

With regards,

STTP Co-ordinators.

Ms.B.T.shobana, AP/IT

Ms.K.Kiruthika Devi, AP/IT

Ms.P.Sharon Femi, AP/IT.

&amp;

Dr.V.Vidhya

Professor &amp; Head Incharge

Dept. of Information Technology

Sri Venkateswara College of Engineering

Sriperumbudur-602117

Ph.044-27152000,extn:350

**STTP - DSMLP-Brochure.pdf**

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**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
**Department of Information Technology**  
**STTP on Data Science and Machine Learning using Python**  
**April 29- May 3, 2019**

S.No	Name of the Faculty	Designation	Dept.	Mail id, Phone no	College Name
1	Ms.V.M.Sivagami	ASP	IT	vmsiva@svce.ac.in	SVCE
2	Dr.C.Yaashuwanth	Assoc Prof	IT	yaashuwanth@svce.ac.in 984095605	SVCE
3	Dr.T.Sukumar	Asst. Prof.	IT	sukumar.t@svce.ac.in 95980-74435	SVCE
4	Mr.S.Uvaraj Arutkumaran	A.P	IT	uvarajana@svce.ac.in 9884430584	SVCE
5	Ms.P.Leela Rani	AP	IT	leela@svce.ac.in	SVCE
6	Ms.S.Kalavathi	Asst Prof	IT	kalavathi@svce.ac.in 9445529884	SVCE
7	Ms.A.Rohini	AP	IT	arohini@svce.ac.in 8939594364	SVCE
8	Mr.K.Suresh	AP	IT	ksuresh@svce.ac.in 9841222106	SVCE
9	Ms.A.Indumathi	Asst. Prof	IT	aindumathi@svce.ac.in 9994454683	SVCE
10	Ms. K. Nivethaa shree	Asst. Prof	IT	nivethaashree@svce.ac.in 9940541243	SVCE
11	Ms.N. Uma	Asst Prof	IT	numa@svce.ac.in 8015758445	SVCE
12	Mr.V. Ranjith	Asst. Prof	IT	ranjithv@svce.ac.in 9994976954	SVCE
13	Ms.R.Gayathri	Asst. Prof	CS	gayathri@svce.ac.in 9894802344	SVCE
14	Ms.R. <sup>h</sup> Bu <sub>A</sub> vaneswari	ASST-PROF	CS	bhuvana@svce.ac.in 9941833038	SVCE
15	Ms.E.Rajalakshmi	Asst. Prof	CS	eraji@svce.ac.in 9952130649	SVCE
16	Ms.S.U. Muthunagai	Asst Prof	CS	muthunagai@svce.ac.in 9789623092	SVCE

S.No	Name of the Faculty	Designation	Dept.	Mail id, Phone no	College Name
17	Ms.S.Rajalakshmi	AP	CS	9047560110 sraji@svce.ac.in	SVCE
18	Ms.Abirami U	AP	CS	abirami@svce.ac.in 9884113829	SVCE
19	Ms.Buvana J.	AP	CS	buvana@svce.ac.in 9597932530	SVCE
20	Ms. K.S.Subashini	AP	EC	ksubha@svce.ac.in 9790792194	SVCE
21	Ms.L.Anju	AP	EC	anju@svce.ac.in 9840159602	SVCE
22	Ms.Mehzabeen S.M.	AP	EC	mehzabeen@svce.ac.in 7502357937	2127-SVCE
23	Ms.Rajeswari Ramaraj	AP	EC	r.rajewari@svce.ac.in 8012914289	2127-SVCE
24	Mr.Kumaravel.S	AP	EE	kumaravel@svce.ac.in 9940695670	2127-SVCE
25	Dr.Bharathidasan.S.G	ASP	EE	bharathi@svce.ac.in 9994423534	SVCE
26	Mr.C.Kamal	AP	EE	kamalc@svce.ac.in 9791121025	2127-SVCE
27	Mrs. Joslin Iyda.J	AP(S.G.)	IT	iydawin@gmail.com 9578381837	2116-REC
28	Mrs.R.Dharani	AP(Grade I)	IT	dharani.r.it@gmail.com 9140502715	2115/PIT
29	Mrs.S.Irin Sherly	AP	IT	irinsherly15@gmail.com 8807576499	2115/PIT
30	Ms.S.Janani	AP	IT	sjanani.me@gmail.com	St. Joseph's College of Engg.
31	Mr.K.Kalaimani	Instructor	IT	kalaimani@svce.ac.in 9381903352	SVCE
32	Mr.S.Sundaranarayanan	Instructor	IT	Sundar@svce.ac.in	SVCE
33	Mr.K.Mohan	Instructor	IT	mohank@gmail.com 9994174707	SVCE
34	Mr.S.Manigandan	Computer operator	IT	smai@svce.ac.in 9894872400	SVCE
35	Ms.R.Sarumathi	Jr. Assistant	IT	Sarumathi@svce.ac.in 9500117190	SVCE





S.No	Name of the Faculty	29.04.2019		30.04.2019		02.05.2019		03.05.2019	
		FN	AN	FN	AN	FN	AN	FN	AN
1. S	Ms. K.S.Subashini	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2.	Ms.L.Anju	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
3.	Ms.Mehzabeen	AB	AB	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4.	Ms.Rajeswari Ramaraj	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
5.	Mr.Kumaravel.S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
6.	Dr.Bharathidasan.S.G	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
7.	Mr.C.Kamal	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8.	Mrs. Joslin Iyda.J	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
9.	Mrs.R.Dharani	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10.	Mrs.S.Irin Sherly	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
11.	Ms.S.Janani	S	S	S	S	AB	AB	S	S
<b>SUPPORTING STAFF</b>									
12.	Mr.K.Kalaimani	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
13.	Mr.S.Sundaranarayanan	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
14.	Mr.K.Mohan	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
15.	Mr.S.Manigandan	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
16.	Ms.R.Sarumathi	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		

*[Signature]*  
P. K. Anand  
STTP COOR 3/5/19

*[Signature]*  
T. S. S. S.

# Sri Venkateswara College of Engineering

## Department of Information Technology

### Short Term Training Programme On “Data Science and Machine Learning using Python”

#### A Report

The Short Term Training Programme on “**Data Science and Machine Learning using Python**” was organized by the **Department of Information Technology** from 29<sup>th</sup> April to 3<sup>rd</sup> May 2019. A total of 30 participants (26 internal and 4 external) participated in the STTP.

The Short Term Training Programme was started on **29<sup>th</sup> April 2019** with a prayer song rendered by **Mr.V.Ranjith**, Assistant Professor, Department of Information Technology followed by welcome address delivered by **Ms.B.T.Shobana**, Assistant Professor, Department of Information Technology and STTP coordinator. Introduction of chief guest was given by **Ms.K.Kiruthika Devi**, Assistant Professor, Department of Information Technology.

The programme was inaugurated by **Professor and Head – TIC Dr.C.Anand Babu**, Department of Chemical Engineering. The chief guest enlightened the participants on the recent trend in Data Science and Machine Learning. He raised a concern towards data security in near future and motivated the participants to get benefited from the programme. **Head of Information technology Dr.V.Vidhya** and convener of the Short Term Training Programme gave an introductory talk emphasizing the importance of the Data Science and Machine Learning in the Industry perspective. She highlighted the importance of conducting such a programme and motivated the participants.

DAY 1- 29.04.2019

Inaugural Function



Welcome address by Ms.B.T.Shobana,  
STTP Coordinator



Short note by Dr.V.Vidhya, Convener, STTP



Introduction of Chief Guest- Ms.K.Kiruthika Devi,  
STTP Coordinator



Inaugural address by Dr.C.Anand Babu,Professor  
and Head- TIC

## Day 1 (29-04-2019)

### Lecture Session:

The first lecture session of the STTP was delivered by **Ms.P.Sharon Femi**(Assistant Professor, Department of Information Technology) who gave introduction to **Data Science** and enlightened the participants the need for the emergence of Data Science. The concepts were illuminated with the real time applications which was helpful for beginners. She also gave introduction on the different types of Machine Learning models and elaborated on Supervised learning, Unsupervised learning and Reinforcement learning Techniques.

The second session started after a small tea break, in which **Ms.B.T.Shobana**(Assistant Professor, Department of Information Technology) delivered a talk on **“Regression Models”**. The session started with introduction to prediction models and the various real time applications of the same. She covered the foundations of regression models, types of models – simple linear regression, multiple regression and logistic regression.

### Laboratory Session:

The third session was handled by **Ms.J.Sharon Ranjitha Esther**(Assistant Professor, Department of Information Technology) after lunch break which helped the participants to complete the lab practice which was designed on the **“basics of python language”**. The participants were provided with hands on sessions on Anaconda Environment (Packages and modules specifically focusing on data science and machine learning such as Numpy, Pandas, Scikit and Matplotlib).

After a small tea break Lab session start, **Ms.B.T.Shobana**(Assistant Profrrsor, Department of Information Technology) focused on the hands on exposure of **regression analysis in python**. The various regression models such as simple linear regression, multiple regression and logistic regression were experimented and demonstrated in python language using different data sets.

## Glimpses of First Day

DAY 1- 29.04.2019



Session I- Introduction to Data Science and Machine Learning- Ms.P.Sharon Femi, AP/IT



Session II- Regression Analysis- Ms.B.T.Shobana, AP/IT



Hands-on Session-Introduction to python- Ms.J.Sharon Ranjitha Esther, AP/IT



Hands-on Session- Regression Analysis- Ms.B.T.Shobana, AP/IT

## Day 2 (30-04-2019)

### Lecture Session:

On the second day, session started with lecture of **Mr.K.B.Sundara Kumar**(Assistant Professor, Department of Information Technology, SSN College of Engineering), on **fundamentals of supervised learning techniques** such as classification using perceptron, Decision trees, Random forests, K-Nearest Neighbour and Naive Bayes classifier. The practical sessions were conducted in parallel to lecture session.

After a tea break, **Mr.K.B.Sundhara Kumar** continued his session on the Unsupervised learning techniques – clustering and the various types of clustering methods. The clustering techniques such as K means clustering and Hierarchical agglomerative clustering were demonstrated.

## Laboratory Session:

After completion of Lunch, the last session was handled by **Ms.N.Devi**(Assistant Professor, Department of Information Technology) with the title “**Gesture recognition using machine learning**”. The speaker covered topics such as machine learning models for handling images and also demonstrated gesture recognition using python.

## Glimpses of Second Day

DAY 02 - 30.04.2019



Session I- Classification- Mr.K.B.Sundhara Kumar, AP/IT, SSN College of Engineering



Session II- Clustering- Mr.K.B.Sundhara Kumar, AP/IT, SSN



Feedback from External Participant



Session 3- Image Processing using CNN- Ms.N.Devi, AP/IT

## Day 3 (02-05-2019)

### Lecture Session:

On third day, session was started by **Dr.R.Jayabhaduri**(Associate Professor, Department of Computer Science and Engineering, Sri Venkateswara College of Engineering) on title “**Neural Networks and its applications**”. The speaker started with basics of neural networks and the analogy of human brain-Biological neural nets. Concepts such as ANN architecture, feed forward networks, back propagation networks, Recurrent networks, Stochastic networks and Self Organizing Maps(SOM) were explained. Expert explained each concept with very introductory level and leads towards the higher

level application. Hands on session on Artificial Neural Networks were conducted with various data sets.

After the completion of the first session, **Dr.N.Rajeswari**(Associate Professor, Department of Computer Science and Engineering) continued the session with “**Hidden Markov model and its applications**”. The session dealt on HMM parameters, computation of likelihood probabilities and Decoding sequence. A Case study on “Spoken Digit recognition” was presented and the way of measuring the performance was discussed.

The Day three last session was handled by **Dr.S.Ganesh Vaidyanathan**(Professor and Principal, Sri Venkateswara College of Engineering) handled the session on “Associative Machine Learning”. The speaker started with real time illustrations of the basics of Hetero Association, Auto Association and Conditional Associative Machine Learning. The basics and functioning were clearly explained with supportive applications. Training of CAN(Conditioned Associative Networks) was demonstrated with suitable examples. The session ended with advanced associative learning networks.

### Glimpses of Third Day

DAY 03 - 02.05.2019



Session I – Neural Networks with hands-on-  
Dr.R.Jayabhaduri, ASP/CS,SVCE



Honouring of Resource person



Session 2- Hidden markov Models-  
Dr.N.Rajeswari, ASP/CS



Honouring of Resource person



Session III -Associative Machine Learning-  
Dr.S.Ganesh Vaidyanathan, Principal, SVCE



Honouring of Resource Person

## Day 4 (03-05-2019)

### Lecture Session:

Fourth day session started with expert lecture of **Ms.K.S.Gayathri**(Associate Professor, Department of Computer Science and Engineering), tilted on “**Activity Recognition in Smart Homes**”. Ambient assistive living, pattern clustering and probabilistic ontology were discussed. A Case study was presented and the way of performance measure of ANN and SVM were discussed.

After lunch, the last session of fourth day was handled by **Ms.K.Kiruthika Devi**(Assistant Professor, Department of Information Technology) on “**Text Mining – Process, Techniques and Applications**”. The session covered the text mining process and text mining techniques. Classification of text using the supervised learning technique like random forest and categorization of text using unsupervised learning technique like K-Means were experimented and demonstrated in python using different data sets.

### Glimpses of Fourth Day

## DAY 04 - 03.05.2019



Session 1- Activity Recognition in smart homes-  
Dr.K.S.Gayathri, ASP/CS



Honouring resource person





Session 2- Text Mining- Ms.K.Kiruthika Devi, AP/IT

### **Valedictory Function:**

The Valedictory function was presided over by **Dr.K.S.Badrinathan**, Professor and Dean – Educational Development, Sri Venkateswara College of Engineering. The chief guest delivered a brief note on the current implications of Artificial Intelligence and Data Science. He awarded the certificates to all the participants. Dr.G.Sumathi, Professor, Department of Information Technology motivated all the participants in research perspective. Ms.B.T.Shobana, Assistant Professor, STTP coordinator delivered the vote of thanks.



Feedback from External Participant



Feedback from Internal Participant



Certificate Distribution

Before the end of the programme, few participants came forward and very well appreciated the programme and the benefits acquired from the STTP programme. They said the lecture sessions and the practical sessions were very much useful and was a good motivation for them to pursue research in these areas.

As a concluding note we express our heartfelt thanks to the Management and the Principal for their great support for the conduct of the programme.

**Outcome of the Programme:**

- The participants were exposed to emerging technologies in the area of Data Science and Machine learning.
- The participants learnt various machine learning techniques with practical sessions.

**Dr.V.Vidhya, HOD-In charge  
STTP Convenor,  
Department of Information Technology.**

## ABOUT THE COLLEGE

Sri Venkateswara College of Engineering (Autonomous), a premier self-financing engineering college was established in the year 1985 and is managed by Sri Venkateswara Educational and Health Trust. The college offers 10 BE/B.Tech Degree Courses and 10 PG Courses in Engineering/ Technology. The courses are approved by AICTE and affiliated to Anna University, Chennai. The college attained autonomous status in the year 2016. The college is accredited by National Assessment and Accreditation Council (NAAC). The National Board of Accreditation has accredited many of the eligible programmes. The college is an IRQS ISO 9001:2015 certified institution. The college is situated in serene environment about 37 Kms from Chennai and situated on the way of Chennai – Bangalore National Highway (NH4) at Pennalur, Sriperumbudur, in Kanchipuram district.

## ABOUT THE DEPARTMENT

Sri Venkateswara College of Engineering Pioneered the introduction of the B.Tech degree programme in Information Technology in the year 1996. The Department of Information Technology has well qualified faculty members and is offering undergraduate course in Information Technology and a postgraduate course in Computer Science Engineering with specialization in Networks. Also, the Department is recognized as Research Centre by Anna University and many scholars are pursuing their research under the same.

B.Tech(IT) course is accredited by NBA for six years. SVCE is accredited as National Resource Centre by National Cyber Safety and Security Standards and managed by the Department of Information Technology.

## ABOUT THE STTP

With the emergence of new technologies and innovative business strategies, the entire world has shrunk to a global hub. The analysis of Data has become an important aspect as many organizations have been collecting massive amounts of domain-specific data, which can contain useful information about the problems organizations are facing. Machine Learning is a highly focused technique in Data Science, where a huge amount of raw data is uncategorized. The rapid development in machine learning methodologies and algorithms have a significant impact on modern business there by affecting the way we solve and optimize solutions to real world problems. This has also led to an increase in the use of these techniques in the areas of Financial Forecasting, Search Engines, Image Recognition, Natural Language Processing, Medical Diagnosis, Marketing Recommendation Systems, Classification and Prediction for various systems. The academicians, practicing managers and research scholars must delve deeper to discover hidden patterns for establishing connections so as to frame a coherent picture of the state of the field, research. This Short Term Training Programme is designed to provide the state of the art trends and advancements of Machine Learning and Data Science. The programme will focus on theoretical aspects and also provide hands on experience to participants.

## STTP OBJECTIVE

- To expose the Faculty/ Research Scholars in emerging technologies in the area of Data Science and Machine learning.
- To provide an exposure to various machine learning techniques using python and derive practical solutions using predictive analytics.

## Short Term Training Programme on

“Data Science and Machine Learning using Python”

(April 29- May 3, 2019)

## REGISTRATION FORM

1. Name : *P. Dharani*
2. Designation : *AD*
3. Department : *IT*
4. Educational Qualification: *M.Tech*
5. Institution / Organization: *Panimalar Institute of Tech*
6. Mailing Address : *Bangalore Trunk Road,  
Varadharajapuram, Naza Rethipet, Chennai - 123*
7. Phone / Mobile : *9940502715*
8. Email-id : *dharani.sit@gmail.com*

Place: *Chennai*

Date: *22/4/19*

Signature of the Candidate

## RECOMMENDATION FROM THE HEAD OF THE INSTITUTION / ORGANIZATION

This is to certify that Mr. / Ms. *P. Dharani*  
of *Panimalar Inst. of Tech.*  
(Name of the Institution / Industry) is permitted to participate in the STTP during April 29- May 3, 2019 at Sri Venkateswara College of Engineering, Irungattukottai, Sriperumbudur Taluk- 602117, Tamilnadu.

Date *22.4.19.*

Signature  
(Designation & Seal)

**PRINCIPAL**  
**PANIMALAR INSTITUTE OF TECHNOLOGY**  
391, Bangalore Trunk Road,  
m,  
POONAMALLEE, CHENNAI-600 123.



# SRI VENKATESWARA COLLEGE OF ENGINEERING

Pennalur, Sriperumbudur Taluk - 602117

## FEEDBACK FORM

Please take a moment to complete this feedback form. Your valuable comments will assist us in improving our future program, workshops and seminars

### Participant Information

Name :	DR. T. SURESH	Name of the Program	Four Days STTP on "Data Science and Machine Learning using Python" during 29 <sup>th</sup> April to 3 <sup>rd</sup> May 2019
Designation:	ASSO. Prof		
Organization:	SVCE		

### EVALUATION (TICK APPROPRIATELY)

	STRONGLY AGREE	AGREE	NEUTRAL	DISAGREE
1. The pre-program administration was appropriate and informative	✓			
2. The program was scheduled at a suitable time	✓			
3. The program facilities and location were appropriate and satisfactory	✓			
4. The speaker and the speakers topic were relevant to the topic	✓			
5. The presenter responded to questions in an informative, appropriate and satisfactory manner	✓			
6. Overall the program was informative and valuable	✓			
7. In what ways could this program have been improved to better suit your needs?	practical sessions can be embedded			
8. Other comments	overall very good			

Signature of the participant with Date

*[Signature]* 8/5/2019



SRI VENKATESWARA COLLEGE OF ENGINEERING  
FEEDBACK FROM THE SPEAKER - GUEST LECTURE

DEPARTMENT : IT

Name of the Speaker	: K.B. SUNDHARA KUMAR
Designation	: ASSISTANT PROFESSOR
Institution/University/Organisation	: SSN College of Engineering
Mobile / E-mail	: sundharakumar.kb@ssn.edu.in
Title of the Lecture	: Supervised & Unsupervised Machine Learning
Date	: 30/4/19
Time	: 9.00 - 2.30pm
Venue	: SVCE
Comments by the Speaker	: Well organised and well Prepared lab to enable a hassle-free handson to the participants. Participants were excited and involved in good discussion.
Suggestions for improvement	: Some pre-requisites can be met.
Signature of the Speaker	: K.B. Sundhara

B.T. Srinivasan

Signature of Coordinator

P. Srinivasan

Signature of HOD i/c