



## Report on Three Day Webinar on Visualization, Analytics using R and Machine Learning

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3-5-2020

On 28, 30 April 2020 and May 1,2020

Organized by Department of Computer Science and Engineering (SCIMS),  
BSACIST

In collaboration with

**BrainSwig Eductech Pvt.Ltd**

### Webinar Co-ordinators

Mrs. R. Akila , AP(Sr.G)/CSE

Mrs. J.Brindha Merin , AP(Sr.G)/CSE

Mrs.D. Madhina Banu, AP(Sr.G)/CSE

Mr. D.S. Manoj Kumar, AP/CSE

### Conveners

Dr. E. Syed Mohamed, Prof.&Head, CSE

Dr. Venkatesan Selvam, Dean, SCIMS

### PREAMBLE

The Department of CSE in association with BrainSwig Eductech Pvt.Ltd conducted the following three webinars for the teaching faculty of BSACIST.

- Advanced Business Analytics Using R Software ( April 28,2020)
- Data Visualization using Tableau ( April 30,2020)
- Machine Learning using Python ( May 1,2020)

BrainSwig is a leading DataScience, Big Data, Business Analysis, Big Data, Tableau, Machine Learning, Data Analysis, Business Analytics educational institute offering training programs designed to bridge the gap between academics and industry, which is located in Medavakkam,Chennai. BrainSwig offers a comprehensive range of professional Analytics programs .42 faculty from various departments of BSACIST attended the webinar.

**Mr.Dinesh Babu R**, Managing Director, BrainSwig delivered the lecture for the three days.



The course content delivered in the webinar is as follows:

### **Advanced Business Analytics Using R Software**

( April 28,2020)

1. Business Analytics and it's Application
2. Association Techniques - Amazon Product Recommendation Modelling
3. Apriori Algorithm and MBA (Market Basket Analysis)
4. Application of Association Rule using R Software
5. Business Analytics Career Opportunities in India and Global Market

### **Data Visualization using Tableau**

( April 30,2020)

1. Tableau - Data Visualization - Bar chart-Connecting Tableau to a Data File CSV File
2. Creating Calculated Fields-Time series, Aggregation, and Filters-Working with Time Series
3. Understanding Aggregation, Granularity, and Level of Detail-Creating an Area Chart & Learning About Highlighting-Maps,
4. Scatterplots, and Your First Dashboard-Dashboard and Storyline Creation - Joining Data in Tableau-Creating a Map,
5. Working with Hierarchies-Joining and Blending Data-Advanced Dashboard Interactivity-Creating a Storyline.

### **Machine Learning using Python**

(May 1,2020)

- Master the concepts of Supervised and Unsupervised Learning
- Gain practical mastery over principles, algorithms, and applications of machine learning through a hands-on project.
- Acquire thorough knowledge of the mathematical and heuristic aspects of machine learning.



- Understand the concepts and operation of Support vector machines, Kernel SVM, Naive Bayes, Decision tree classifier, Random forest classifier, Logistic regression, K Nearest neighbors, K Means clustering and more.
- Comprehend the theoretical concepts and how they relate to the practical aspects of machine learning.
- To model a wide variety of robust machine learning algorithms including deep learning, clustering, and recommendation systems
- Examine and learn data manipulation with R and Python functions also Learn the fundamentals of R and Python programming.
- Apply data visualization to make fancy plots also predictive Analytics to predict outcomes in R and Python.

Also the feedback about the session was collected from all the participants to improve the sessions that will be conducted in the mere future. Total number of participants is 42. The following are the details of the participants:

S.No.	First Name	Last Name	Phone Number	Email Address
1	Dr.E.Syed	Mohamed	9444214825	syedmohamed@crescent.education
2	Sherin	Farhana ev	9074529843	Sherin@crescent.education
3	ANURADHA	N	9444149454	anuradharajaprabu@crescent.education
4	Gnanasekaran	P	9176104121	gnanasekaran@crescent.education
5	Syed Younus	Ahmed	9710766527	yonusahmed@crescent.education
6	Hema	C	7397463890	hemac@crescent.education
7	Muthupriya	V	9841862224	muthupriya@crescent.education
8	KAREEMULLAH	HAKIM	9380336014	kareemullah@crescent.education
9	Reshmy	A.K.	9790930377	reshmyak@gmail.com
10	Dr.Sudha	Rajesh	9445959163	sudharajesh@crescent.education
11	Dr. A.K.Ashfauk	Ahamed	7904809546	ashfauk@crescent.education
12	Kannadasan	B	9884991845	Kannadasan@crescent.education
13	RAMACHANDRAN	A	9344367071	msg2chandran@gmail.com
14	Dr. Shenbaga Priya	V	8754468074	shenbagapriya@crescent.education
15	Bharanigha	v	9444715512	bharanigha@crescent.education
16	SURESH	SAMPATH	8072073658	ssuresh@crescent.education
17	Subhashini	S	9840941648	subashini@crescent.education
18	Dr.Ramya	A	9626267535	ramya.a@crescent.education



19	Revath	S	9445661179	srevathi@crescent.education
20	Dr. M. Syed	Masood	9444874131	ms.masood@crescent.education
21	Manoj Kumar	D S	9600172782	manojkumards03@gmail.com
22	Rocky Devi	Takhellambam	9884499088	rockydevi@crescent.education
23	Syed	Rafiammal	7010512226	rafiammal@crescent.education
24	Ramesh Kumar	A	999107303	ramesh@crescent.education
25	Dr.N.SABIYATH	FATIMA	9840507477	sabiyathfathima@crescent.education
26	Vijayalakshmi	C	9840489748	vijayalakshmi@crescent.education
27	NABEENA	AMEEN	9444206295	nabeena@crescent.education
28	Dr.A.MANSHATH	Ameerjan	9841072498	manshath@crescent.education
29	Thirumurugan	M	9941131913	thirumurugan@crescent.education
30	S.P	Valli	9444152117	vallisp@crescent.education
31	X.	Arputha Rathina	9444740794	xarathina@crescent.education
32	Sharmila	Sankar	919884821441	sharmilasankar@crescent.education
33	Preeti	Verma	8299496055	preetiverma@crescent.education
34	D	Asokk	9159863126	asokk@crescent.education
35	Dr.Sharon	Priya. S	9600016318	sharonpriya@crescent.education
36	Balaji	Venkatesan	9600822007	vbalaji@crescent.education
37	RAMACHANDRAN	A	9344367071	ramachandran@crescent.education
38	Mahadev	Ota	8144618689	mahadev.ota@crescent.education
39	Gufran	Ansari	8009467566	gufran@crescent.education
40	S.	Syedabdulsyed	9841142254	syedabdulsyed@crescent.education
41	Pakkir Mohideen	Sheik	9444780125	pakirmoitheen@crescent.education
42	Sabaria	Swaminath	8675746255	ssabaria89@gmail.com



B.S. Abdur Rahman  
**Crescent**  
Institute of Science & Technology  
Deemed to be University u/s 3 of the UGC Act, 1956  
CST Road, Vandalur, Chennai-600 048

**SCHOOL OF COMPUTER, INFORMATION AND MATHEMATICAL SCIENCES**

**Webinar on Advanced Business Analytics Using R**

Exclusively for Faculty Members  
on 28 Apr 2020, Tuesday from 11 AM to 1 PM

ORGANIZED BY  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

IN ASSOCIATION WITH

**BRAINSWIG™**  
*feel the pulse of learning*

**COORDINATORS**  
Mrs.R.Akila  
Mrs.J.Brindha Merin  
Mrs.Madhina Banu  
Mr.Manoj Kumar D S

**R**

**CONVENERS**  
**Dr.E.Syed Mohamed** **Dr.Venkatesan Selvam**  
PROFESSOR & HEAD, CSE DEAN, SCIMS

Fig. 1 Advanced Business Analytics Using R Software Brochure

B.S. Abdur Rahman  
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**SCHOOL OF COMPUTER, INFORMATION AND MATHEMATICAL SCIENCES**

**Webinar on Data visualization using Tableau**

Exclusively for Faculty Members  
on 30 Apr 2020, Thursday from 11 AM to 1 PM

ORGANIZED BY  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

IN ASSOCIATION WITH

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**tableau**

**CONVENERS**  
**Dr.E.Syed Mohamed** **Dr.Venkatesan Selvam**  
PROFESSOR & HEAD, CSE DEAN, SCIMS

Fig. 2 Data Visualization using Tableau Brochure



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CST Road, Vandalur, Chennai 600 049

**SCHOOL OF COMPUTER, INFORMATION  
AND MATHEMATICAL SCIENCES**

**Webinar on  
Machine Learning using Python**

Exclusively for Faculty Members  
on 1st May 2020, Friday from 11 AM to 1 PM

ORGANIZED BY  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
IN ASSOCIATION WITH

**COORDINATORS**  
Mrs.R.Akila  
Mrs.J.Brindha Merin  
Mrs.Madhina Banu  
Mr.Manoj Kumar D S

**CONVENERS**  
**Dr.E.Syed Mohamed** **Dr.Venkatesan Selvam**  
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**Fig. 3 Machine Learning using Python**

**Co-ordinators**

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## Feedback on Three Day Webinar on Visualization, Analytics using R and Machine Learning

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Dr. Venkatesan Selvam, Dean, SCIMS

Feedback Points	Analysis	Inference								
1)Webinar Attended	<table border="1"><caption>Webinar Attendance Data</caption><thead><tr><th>Topic</th><th>Percentage</th></tr></thead><tbody><tr><td>Advanced Business Analytics Using Software</td><td>28%</td></tr><tr><td>Data Visualization Using Tableau</td><td>48%</td></tr><tr><td>Machine Learning using Python</td><td>24%</td></tr></tbody></table>	Topic	Percentage	Advanced Business Analytics Using Software	28%	Data Visualization Using Tableau	48%	Machine Learning using Python	24%	Data Visualization plays a major role in data science and machine learning. Hence 50% of faculty attended it.
Topic	Percentage									
Advanced Business Analytics Using Software	28%									
Data Visualization Using Tableau	48%									
Machine Learning using Python	24%									



<p>2) Did the webinar achieved the program objective</p>	<p style="text-align: center;"><b>The webinar achieved the program objective</b></p> <table border="1"><thead><tr><th>Response</th><th>Percentage</th></tr></thead><tbody><tr><td>Strongly Disagree</td><td>0%</td></tr><tr><td>Disagree</td><td>0%</td></tr><tr><td>Agree nor Disagree</td><td>2%</td></tr><tr><td>Agree</td><td>13%</td></tr><tr><td>Strongly Agree</td><td>85%</td></tr></tbody></table>	Response	Percentage	Strongly Disagree	0%	Disagree	0%	Agree nor Disagree	2%	Agree	13%	Strongly Agree	85%	<p>The objective of the webinar was achieved as 85% of the participants has strongly agreed.</p>
Response	Percentage													
Strongly Disagree	0%													
Disagree	0%													
Agree nor Disagree	2%													
Agree	13%													
Strongly Agree	85%													
<p>3) What is your overall assessment of the event?</p>	<p style="text-align: center;"><b>Overall assessment of the event</b></p> <table border="1"><thead><tr><th>Response</th><th>Percentage</th></tr></thead><tbody><tr><td>Strongly Disagree</td><td>0%</td></tr><tr><td>Disagree</td><td>0%</td></tr><tr><td>Agree nor Disagree</td><td>8%</td></tr><tr><td>Agree</td><td>12%</td></tr><tr><td>Strongly Agree</td><td>80%</td></tr></tbody></table>	Response	Percentage	Strongly Disagree	0%	Disagree	0%	Agree nor Disagree	8%	Agree	12%	Strongly Agree	80%	<p>80% percent of the participants evaluated the webinar to be excellent.</p>
Response	Percentage													
Strongly Disagree	0%													
Disagree	0%													
Agree nor Disagree	8%													
Agree	12%													
Strongly Agree	80%													
<p>4) Knowledge and information gained from participation at this event</p>	<p style="text-align: center;"><b>Knowledge and information gained from participation at this event</b></p> <table border="1"><thead><tr><th>Response</th><th>Percentage</th></tr></thead><tbody><tr><td>Strongly Disagree</td><td>0%</td></tr><tr><td>Disagree</td><td>0%</td></tr><tr><td>Agree nor Disagree</td><td>1%</td></tr><tr><td>Agree</td><td>10%</td></tr><tr><td>Strongly Agree</td><td>89%</td></tr></tbody></table>	Response	Percentage	Strongly Disagree	0%	Disagree	0%	Agree nor Disagree	1%	Agree	10%	Strongly Agree	89%	<p>The knowledge obtained by this webinar is appreciated by 89% of the participants. They appreciated the presentation materials.</p>
Response	Percentage													
Strongly Disagree	0%													
Disagree	0%													
Agree nor Disagree	1%													
Agree	10%													
Strongly Agree	89%													





5) The webinar content was:	<p style="text-align: center;"><b>The webinar content was</b></p> <table border="1"><thead><tr><th>Response</th><th>Percentage</th></tr></thead><tbody><tr><td>Strongly Disagree</td><td>0%</td></tr><tr><td>Disagree</td><td>1%</td></tr><tr><td>Agree nor Disagree</td><td>0%</td></tr><tr><td>Agree</td><td>8%</td></tr><tr><td>Strongly Agree</td><td>91%</td></tr></tbody></table>	Response	Percentage	Strongly Disagree	0%	Disagree	1%	Agree nor Disagree	0%	Agree	8%	Strongly Agree	91%	The content delivered in the webinar was useful to 91% of the participants
Response	Percentage													
Strongly Disagree	0%													
Disagree	1%													
Agree nor Disagree	0%													
Agree	8%													
Strongly Agree	91%													

The overall organization and deliverance of the webinar was helpful and satisfying to 86% of the participants. This webinar would help the participants to conduct the classes in a effective way and also it would help them to do their implementation in research work.

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Sample Feedbacks Responses obtained through Google form from the participants.

Feedback Form -Webinar .csv - Microsoft Excel													
M14													
	A	B	C	D	E	F	G	H	I	J	K	L	
1	Timestamp	Username	Name of the 1)	Webinar Attender	2) What is	3) Did the	4) Knowle	5) The we	6) Further comments or suggestions				
2	2020/05/04 8:20:17 AM	srevathi@cr	Revathi S	Data Visualizatic	5	5	5	5	Overall the webinar is good				
3	2020/05/04 9:32:37 AM	vallisp@cre	S.P.Valli	Data Visualizatic	4	4	4	4	Good				
4	2020/05/04 9:34:38 AM	manojkumar	Manoj Kuma	Advanced Busine	4	4	5	5	2 days workshop can be conducted				
5	2020/05/04 9:35:25 AM	manojkumar	Manoj Kuma	Data Visualizatic	4	5	5	5	session was good				
6	2020/05/04 9:35:50 AM	manojkumar	Manoj Kuma	Machine Learnin	4	5	5	5	great knowledge sharing				
7	2020/05/04 10:03:43 AM	ramachandr	RAMACHANI	Data Visualizatic	4	4	4	4	5 nil				
8	2020/05/04 11:30:33 AM	madina@cre	D.Madhina B	Advanced Busine	5	5	5	5	Excellent				
9	2020/05/04 11:31:45 AM	madina@cre	D.Madhina B	Machine Learnin	5	5	5	5	Excellent				
10	2020/05/04 11:59:11 AM	syedmoham	E.Syed Mohe	Machine Learnin	5	4	5	4	Good Presentaion				
11	2020/05/04 12:28:15 PM	syedabdulsy	Syedabdulsy	Advanced Busine	4	4	4	4	Duration can be extended				
12	2020/05/04 3:15:27 PM	vbalaji@cre	V.Balaji	Data Visualizatic	5	5	5	5	Special thanks to the coordinators				
13	2020/05/04 4:06:52 PM	sabiyathfath	DR.N.SABIYA	Data Visualizatic	4	4	5	4	number of hours can be increased for hands on session				
14	2020/05/05 12:00:58 AM	kannadasan	KANNADASA	Data Visualizatic	5	5	5	5	Need more with real time practical examples				
15	2020/05/05 12:05:28 AM	sharonpriya	S.Sharon pri	Advanced Busine	5	5	5	5	good				
16	2020/05/05 12:28:46 AM	kareemullah	KAREEMULLA	Machine Learnin	5	5	5	5	Need ppt materials				
17	2020/05/05 12:29:38 AM	kareemscor	KAREEMULLA	Data Visualizatic	5	5	5	5	Nothing				
18	2020/05/05 12:30:21 AM	kareemullah	KAREEMULLA	Advanced Busine	5	5	5	5	Nothing				
19	2020/05/05 8:06:10 AM	ssuresh@cre	S SURESH	Machine Learnin	4	4	4	4	Over all good				
20	2020/05/05 8:29:16 AM	xarathina@c	X.Arputha Re	Data Visualizatic	4	5	4	5	nil				
21	2020/05/05 3:32:18 PM	rockydevi@	Takhellambe	Data Visualizatic	5	5	5	5	The same may be organised hands on training when the time permits				
22	2020/05/05 9:04:50 PM	subhashini@	Subhashini	Advanced Busine	4	4	4	4	Theory is more compared to practical aspects				



## Feedback Form

### Feedback Form -Webinar

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Email address:

Valid email address

This form is collecting email addresses. [Change settings](#)

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Name of the

Short answer text

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1) Webinar

1. Advanced Business Analytics Using R Software
2. Data Visualization Using Tableau
3. Machine Learning using Python

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2) What is your overall assessment of the event? (1=Insufficient

1

2

3

4

5

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3) Did the webinar achieved the program

1

2

3

4

5

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4) Knowledge and information gained from participation at

1

2

3

4

5

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5) The webinar content

1

2

3