

Computer Society of India, Mumbai Chapter

Presents

Two days hands on workshop

Business Analytics with R

Date: 16-17 June 2018, 9:30 am to 5:30 pm, Mumbai

Introduction

In recent times, there has been a sudden rise in demand of business analytics. The prime reason behind this surge is the data driven and techno focused approaches that majority of organizations have willingly embraced. The Business Analytics Program is designed to impart an in-depth training in the concepts and techniques of data analytics. The module is designed to help participants learn advanced analytics techniques and algorithms which can be applied using R. The training program will be entirely based on used cases which will give a hands-on learning experiment.

Course Contents

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| <ol style="list-style-type: none">1. Basics of R<ol style="list-style-type: none">a. R Objectsb. Working with different objects2. Data Import3. Exploratory analysis in R4. Data Cleaning with R5. Data Visualization<ol style="list-style-type: none">a. Introductionb. Types of plotsc. GGPlot2 package6. Functions<ol style="list-style-type: none">a. Introductionb. Objectivesc. Creating functions7. Introduction to Analytics<ol style="list-style-type: none">a. Analytics Industry Overviewb. Application of Analytics & Challenges to Analytics8. Data Understanding<ol style="list-style-type: none">a. Data Typesb. Summarizing Techniquesc. Five Number Summaryd. Histograms, Ogives, Box Plots etc.e. Frequency Tables and Distributionf. Cumulative Distributions9. Measure of Central Tendency & Dispersion<ol style="list-style-type: none">a. Understanding Rangeb. Inter Quartile RangeC. Variance & Standard Deviation10. Probability and Probability Distribution<ol style="list-style-type: none">a. Introduction to Probabilityb. Probability Distributionc. Random Variables: Discrete & Continuousd. Discrete Distributions<ol style="list-style-type: none">i. Binomial Distribution | <ol style="list-style-type: none">11. Sampling and Sampling Distribution<ol style="list-style-type: none">a. Introduction to Samplingb. Random & Non Random Samplingc. Sampling Distribution & Central Limit Theorem12. Statistical Inference<ol style="list-style-type: none">a. Estimationb. Hypotheses Testing13. Hypotheses Testing<ol style="list-style-type: none">a. Introductionb. Testing Procedurec. One Sample Test & Two Sample Testsd. ANOVAe. CHISQ Testf. Non Parametric Tests14. Regression & Correlation<ol style="list-style-type: none">a. Introductionb. Correlation Analysisc. Estimation in Regressiond. Hypotheses Testing for estimatese. Multiple Regression analysisf. Multicollinearityg. Fitting the modelh. Regression Assumptionsi. Transformation Of Variables15. Logistic Regression<ol style="list-style-type: none">a. Understanding Logistics Regressionb. Building Modelsc. Model Fitting & Evaluation of goodness of fit16. Cluster Analysis<ol style="list-style-type: none">a. Introduction to Cluster Analysisb. Clustering Algorithmc. Hierarchical Procedure: Agglomerative Clustering |
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<ul style="list-style-type: none"> ii. Negative Binomial iii. Poisson Distribution e. Continuous Distribution i. Normal Distribution 	<ul style="list-style-type: none"> d. Non Hierarchical Procedure: K-means 17. Factor Analysis <ul style="list-style-type: none"> a. Definition and examples b. Factor Analysis c. Evaluation
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Objectives

Packed with advanced analytics techniques and used cases, this course provides an in-depth knowledge of business analytics using R. After the program, you will be:

- Have thorough knowledge on R
- Implement business analytics techniques on real life business problems
- Build predictive models like Regression and Logistic Regression
- Will be able to apply segmentation algorithms

Pre-requisites	Who Should Attend
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<p>There is no pre-requisite for the programs but knowledge of R could be beneficial.</p>	<p>We would recommend this path strongly for professionals in the following roles:</p> <ul style="list-style-type: none"> • IT professionals • Banking and Finance professionals • Marketing Managers • Supply Chain Network Managers • Beginners in in data analytics domain • Students in UG/ PG Analytics Programs • Professors
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Faculty Profile

Mr. Amitendra Kumar

PERSONAL SUMMARY

Amitendra holds an MBA degree from ISCS, Pune. He has 10 years of rich corporate experience in training delivery and analytics product development. He has worked with HDFC bank, Redwood Associates and Analytics Training Institute. He is extremely passionate about analytics and statistical concepts. He has experience of more than 3000 Hrs in training corporate organisations and individuals on different analytical tools such as SAS, Hadoop, R etc. He has also delivered training on Analytics concepts such as forecasting methodologies and segmentation techniques.

He has significant experience in developing cutting edge analytics solutions using statistical/ quantitative tools and techniques. The major clientele includes Standard Chartered Bank, MindTree, Genpact, HP, Creamline Dairy Pvt Ltd (Jersey), Jasper Technologies, ACT TV, Beam Tele, Orient Cements, Yash Technologies, GDF SUEZ, TATA Beverages, Doodla Dairy, Meenakshi Energies Pvt Ltd, NIT Warangal, Amex

TRAININGS CONDUCTED

Major clients include:

HDFC Bank, HP, Standard Chartered Bank, ACT TV, Beam, IBM, Genpact, Holy Merry Business School, Creamline Dairy Products Pvt Ltd, Dialuz Online Ad Services Private Limited, Orient Cements, HP, Mind Tree, GDF Suez, WaterHealth, Yash Technologies, Tata Beverages, Doodla Dairy, Cognizant

As part of Redwood Associates, He has conducted workshops at Redwood’s training lab for senior level management and personnel from different organisations like Genpact, Wipro, HP etc.

EDUCATIONAL QUALIFICATION

MBA (IT & Marketing): Has completed MBA in IT and Marketing from Indira School Of Career Studies, Pune. Has dual specialization in IT and Marketing.

BSC (Mathematics): Has done graduation from St Andrews College, Gorakhpur with 100% marks in Mathematics.

AREA OF EXPERTISE

Statistical Modeling

SAS OLE 9.4

Machine Learning

Python

R Programming

PERSONAL SKILLS

System Thinking

Problem Solving

Analytical Skills

Contact for Registration

Harsh Mane @

CSI Mumbai Chapter

E-217, 2nd Floor, Floral Deck Plaza, MIDC, Near Sunrise Tower, Andheri East, Mumbai – 400093

Tel:022 28235476 / 28235548 / 28235546

Mobile 9819089527,

Email: sunita@events-csi.com /

harsh@csimumbai.org

info@csimumbai.org

<http://www.csimumbai.org>

Registration Fees /Terms and Conditions

- **CSI Member Rs. 10620/-Per Participant including GST**
- **Non CSI Member Rs. 12980/- Per Participant including GST**
- Group discount is available for minimum 5 number of registration.
- The cheque / DD in favour of "CSI Mumbai Chapter" Payable at Mumbai.
- The mentioned fees are inclusive of all taxes and charges.
- Registration fees covers courseware, lunch, Tea/Coffee and CSI Certificate.
- Non CSI Member can avail discount in fees by becoming member of the society for details visit <http://www.csi-india.org>
- Payment is to be made in favour of "**CSI Mumbai Chapter**", **A/c No. 10606576641** payable at State Bank of India, MIDC, Andheri East, Branch, Mumbai-400 093, RTGS/NEFT Code: SBIN0007074, (All Major VISA / Master Credit / Debit cards will be accepted.

Participation only through advance registration, (Batch size 20 participants only)

Note – Out station participants need to confirm at least 5 days prior to the commencement of the training

Disclaimer:

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