

**Venue : Annex Block, First floor, Room No. 223**

Time	Program Schedule
<b>Day 1 – 01/02/2019</b>	
9.00 am - 9.30am	<b>Registration</b>
9.30 am - 11 am	<ul style="list-style-type: none"> <li>• Scope of Data Science</li> <li>• Overview of Machine Learning</li> <li>• Installing Anaconda Software</li> <li>• About Spyder Environment</li> </ul>
11.30 am - 1 pm	<b>Basics of Python</b>
2 pm - 3.15 pm	<b>Predictive Model Building Regression</b> <ul style="list-style-type: none"> <li>• Simple Linear Regression</li> <li>• Multiple Linear Regression.</li> </ul>
	<b>Classifications Techniques</b> <ul style="list-style-type: none"> <li>• Logistic Regression</li> <li>• Classification and Regression Trees(CART).</li> </ul>
3.30 pm - 5 pm	<b>Classification Techniques Cont...</b> <ul style="list-style-type: none"> <li>• Random Forest.</li> <li>• Support Vector Machine(SVM)</li> <li>• Naïve Bayesian</li> <li>• K Nearest Neighbor (KNN)</li> </ul>
<b>Day 2 – 02/02/2019</b>	
9.30 am - 11 am	<b>Clustering Techniques</b> <ul style="list-style-type: none"> <li>• K Means Clustering</li> <li>• K Medoids Clustering.</li> <li>• Hierarchal Clustering</li> </ul>
11.30 am - 1 pm	<b>Clustering Techniques Cont...</b> <ul style="list-style-type: none"> <li>• Agglomerative Clustering</li> <li>• Divisive Analysis Clustering</li> <li>• Density Based Clustering</li> </ul>
2 pm - 3.15 pm	<b>Association Rule Mining</b> <ul style="list-style-type: none"> <li>• Core Concepts of Association Rules</li> <li>• Finding frequent item set with Apriori algorithm.</li> </ul>
3.30 pm - 4.30 pm	<ul style="list-style-type: none"> <li>• Research Tips</li> <li>• How to Start a Research</li> <li>• How to Prepare a Research Article</li> </ul>

**CONVENOR**

**Tmt.M.Henila**  
**Head, Department of BCA**

**ORGANIZING SECRETARY**

**Tmt.A.Radhika**  
**Assistant Professor, Department of BCA**

**TREASURER**

**Tmt.V.Vanitha**  
**Assistant Professor, Department of BCA**

**ORGANIZING COMMITTEE**

**Tmt.M.Meharunnisa**  
**Assistant Professor, Department of BCA**

**Tmt.B.Shathya**  
**Assistant Professor, Department of BCA**

**Tmt.A.Jeevitha**  
**Assistant Professor, Department of BCA**

**ADDRESS FOR CORRESPONDENCE**

**Tmt.A.Radhika**  
**Assistant Professor,**  
**Department of BCA**  
**No.70, Ethiraj Salai, Chennai-600008**  
**Mail id : regaaliya2018@gmail.com**  
**Contact : 9840972075**

**ETHIRAJ COLLEGE FOR WOMEN**  
**(AUTONOMOUS)**  
**Affiliated to the University of Madras**  
**College with Potential for Excellence**



**NATIONAL LEVEL WORKSHOP**

**On**

**“Data Science and Machine learning with Python”**

**1<sup>st</sup> & 2<sup>nd</sup> FEBRUARY 2019**

**Organized by**

**DEPARTMENT OF BCA**  
**ETHIRAJ COLLEGE FOR WOMEN**  
**(AUTONOMOUS)**

**No.70, Ethiraj Salai, Chennai-600008**

**Mail id:regaaliya2018@gmail.com**

## ABOUT THE INSTITUTION

Ethiraj College for Women was founded by the illustrious Barrister-at-Law, Thiru V. L. Ethiraj in 1948. The College is centrally located in the heart of Chennai city. Today, this college is one of the selected Colleges in India recognised with the award of “College with potential for excellence”. Our College is a premier institution dedicated to the cause of Women’s education. The College was re-accredited with the highest grade ‘A’ by NAAC in 2013. The College was conferred with the “Excellence in Higher Education Award 2015” by the VIT University and Educational Excellence Award from the Indus Foundation at the Indo American Education summit 2016. The College was awarded 38<sup>th</sup> rank at the All India level by the National Institutional Ranking Frame work by the Ministry of Human Resources Development (2017-18).

## ABOUT THE DEPARTMENT

The Department of BCA has been introduced from the academic year 2010-11. This course is customized for students wishing to shine in the field of Computers and Information Technologies. It also facilitates the students to exploit the opportunities and creates an avenue to update themselves in the world of ever changing technologies. The curriculum offers a sound academic base which helps the student for an advance career in the field of Computer Application and Information Technology.

## WORKSHOP OVERVIEW

### ABOUT THE WORKSHOP

“Data Science and Machine learning with Python”: The main reason for choosing this topic is the growing popularity of data analytics, machine learning and artificial intelligence in the field of computer science. All the Academicians and the Research Scholars who attend the workshop will gain knowledge on data science and machine learning.

### PROGRAMME METHODOLOGY

1. Interactive lectures and discussions
2. Hands on training

### ABOUT THE SPEAKER

**Dr.S.BHARATHIDASON**  
M.Sc.,M.Phil.,Ph.D.,MBA (SET)

**Assistant Professor,**  
**Department of Computer Science**  
**Loyola College , Chennai.**

He has 15 + years of experience in teaching and more than 6 years of research. His area of research includes Machine Learning, Data Science and Health Care Data Analytics. He has been a resource person for various/conferences on Machine Learning and Data Mining. He has extensive experience in solving the real world problems by employing the Data Mining concepts like clustering ,classification, regression, association rule mining and so on.

He has more than 5 years of experience in using ‘R’ and ‘Python’ softwares.

## REGISTRATION DETAILS

**Registration Fee : Rs.1200/-**

### **Mode of Payment:**

- **By Net Banking:**  
Bank Name : Indian Overseas Bank  
Branch : Women Entrepreneur Branch  
Account Type : SB a/c  
A/C No: 153801000022584  
IFSC Code: IOBA0001538  
A/C Name: REGAALIYA

### **LAST DATE FOR REGISTRATION**

**25-01-2019**

**(Only Limited Seats available)**

## IMPORTANT NOTE

- ❖ The fee includes the Participation fee, Workshop kit, Materials, Certificate, Refreshment and Lunch.
- ❖ Participants are requested to visit our website [www.ethirajcollege.edu.in](http://www.ethirajcollege.edu.in) to register.
- ❖ Send the scanned registration form along with the net banking receipt to the Mail id: [regaaliya2018@gmail.com](mailto:regaaliya2018@gmail.com)
- ❖ Accommodation should be taken care of by the participants themselves.