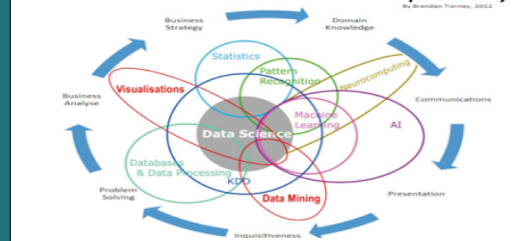


"APPLIED DATA SCIENCE AND BUSINESS ANALYTICS WITH PYTHON AND R"

November 21-25, 2018

Coordinators

Dr. Muhammad Shafi, Dr. Biplab Bhattacharjee



Organised by

School of Management Studies

National Institute of Technology Calicut

NIT Campus P.O., CALICUT - 673601. Kerala, India

INTRODUCTION

Data Science is an interdisciplinary domain consisting of processes and systems to extract knowledge or insights from large volumes of data, either structured or unstructured. It is a continuation of the data analysis fields such as data mining and predictive analytics, as and Knowledge Discovery in Databases (KDD). The objective of this program is to sensitize the participants on a broad range of techniques for data science through Python and R.

OBJECTIVE

The entire workshop is based on R and Python software. However, prior knowledge of R or Python is not a prerequisite. The five day program is progressively designed from elementary to advanced concepts of Python and R. Elementary concepts like data cleaning, pruning, visualizing will be dealt with in detail since the quality of data cleansing determines the subsequent outcomes.

EXPECTED OUTCOMES

- The workshop covers all industry-relevant Business Analytics techniques with right mix of theory and hands on sessions.
- There is good blend of theoretical, hands-on and Do-It-Yourself sessions to make the learning experience less taxing.
- The duration of the workshop is one week which is ideal for understanding basic & advanced BA techniques and practice all the techniques learned during the course of workshop itself.

ABOUT CALICUT

Calicut is prominent centre of higher education, learning and research in Kerala. It is the hometown of institutions of national importance including NITC, IIMK, NIELIT, KSOM and CWRDM. Direct trains to most of the major cities in India connect Calicut. It is also well connected by road to Mangalore, Bangalore, Ooty, Coimbatore, Cochin and Trivandrum. Calicut also has an International Airport which is located about 45 km away from Institute.

ABOUT THE INSTITUTE

(www.nitc.ac.in)

National Institute of Technology Calicut is one of the premier technical institutions in India. NITC is set in a picturesque landscape at the foothills of Western Ghats, located on the Calicut- Makkam road, about 22km from Calicut City. The institute offers nine undergraduate and twenty postgraduate programmes apart from the Ph.D programme under different departments. The institute has good infrastructure in computing, information technology, laboratories and library including a hi-tech Nalanda digital library. Round the clock internet access is available for all staff and students in the NITC Campus.

ABOUT SOMS

www.soms.nitc.ac.in

The School of Management Studies (SOMS) established in the year 2008, offers two year full time Post Graduate Programme in Management (MBA) and Research Programme (Ph.D.). The objective

of NITC-SOMS is to develop students belonging to different disciplines that include Economics or Mathematics as core subject, in analytical and executive skills required for professional managers. It also aims at developing professionals for the analytical and managerial skills required for a professional manager and to enrich them with adequate background of humanities and universal values that would create an awareness of the social responsibility, necessary to enable him/her to play an effective role as manager for the benefit of the society.

The MBA programme has been designed as per international standards at par with IIMs, IITs and Reputed Institutions. In this endeavour, the school invokes excellent executive competence among graduates. The deliverable of the programme is to contribute to the business fraternity, competent executive and professionals combined with human values, meeting the needs and standards of industry globally. The Ph.D. program is drawn in a manner to imbibe managerial research and to establish the research culture while retaining the identity of the individual.

Mission: To equip, train and mould students into globally competent personnel with sound footing on basic managerial principles, skills, research capabilities, along with exemplary professional conduct to analyze, evaluate and execute effective decisions for the progress of enterprises and society, adapting to dynamic economic environment towards robust governance with the highest ethical values.

Vision: Internationally acclaimed professional competency of the highest calibre.

PROGRAMME SCHEDULE

- Introduction to Data science and Business Analytics
- Introduction to R and Python
- Elementary programming in R and Python
- Data pruning, cleaning and visualizing
- Performing elementary statistical tests (univariate and bivariate) using R and Python
- Supervised and Unsupervised Learning using R and Python
- Decision trees
- Data clustering
- Data reduction and visual analytics
- Market basket analysis
- Text analytics
- Industry use cases using machine learning algorithms

IMPORTANT DATES

Last date for advance registration : October 25th 2018

ELIGIBILITY

This is an interdisciplinary programme. Participants from Industry and Academia, Students, Researchers in any of Arts/Science/Engineering/ Management stream are eligible to apply. Participants should be familiar with MS Excel to attend the Data Analysis using R and Python sessions. All participants must have their personal laptops with them.

REGISTRATION FEE

Participants from other institutes : Rs. 6844/-
Participants from NITC : Rs. 4130/-

Registration fee includes workshop kit, Refreshments, and working lunch. The registration fee should be deposited directly to the SBI-NITC Branch in the Account No. 37618269594, SBI, NITC BRANCH. IFSC: SBIN0002207 In favor of 'Director NIT Calicut, Continuing Education Programme'

HOW TO APPLY?

Registration form can be downloaded from the institute website. The filled in registration form should reach the Coordinator on or before 10-11-2018 along with the DIRECT / ONLINE payment receipt of the registration fee.

SELECTION

Selection will be on first-come-first-served basis and will be intimated through e-mail. Number of participants is limited to 50. All further communications will be through e-mail.

ACCOMMODATION

Boarding and lodging could be arranged in the guest rooms of the institute hostel on a nominal payment upon request well in advance.

KEY RESOURCE PERSON

Dr Animesh Acharjee: He is an Visiting Scientist (Data Analysis) in University of Cambridge, UK and a Senior Scientist, University of Birmigham, UK. He has worked in the field of data science and High dimensional data analysis for past 10 years. Prior to joining University of Cambridge he was working as a Scientist in BASF, Belgium and Statistician in Synergie Lyon Cancer Center, France. He is a B.Tech in Electrical Engineering and PhD in Data Analysis and Machine learning from Wageningen University, Netherlands. Dr. Animesh has also received training in Judge Business School, Cambridge, Stanford University, Technische Universität. He has been granted several International fellowships during his career progression such as International Society for Computational Biology (ISCB), British

Council, Newton-Katip Çelebi Fund, Dutch Government. He published many articles in leading journals and presented his work more than 15 countries including Massachusetts Institute of Technology (MIT), USA; Judge Business School, Cambridge, UK. He is part of Cambridge Big Data Initiate and also involved in consultancy with multiple industry partners in UK and India.

Mr Sandeep Kandukuri: He is a Senior Data Scientist in D4Insight working in the area of Artificial Intelligence and Machine Learning. He has more than 5 years of rich industry experience across Retail, E-commerce, Banking, Insurance, Airlines, R&D, Innovation teams and served numerous Fortune 500 clients. Prior to joining D4Insight, he worked with Mu Sigma and Anheuser-Busch InBev. He is currently working on Advance Natural Language Processing/Information Retrieval to generate insights from unstructured text data. His interests include Self-driving cars, Industrial applications of AI/ML to build intelligent systems and generate value from data. He also has experience in mentoring top students from premier institutes during Nationwide Hackathon.

Resource persons from NIT Calicut also will deliver sessions

CONTACT ADDRESS

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3rd NATIONAL WORKSHOP ON

"APPLIED DATA SCIENCE AND BUSINESS ANALYTICS WITH PYTHON AND R"

November 21-25, 2018

- Name:
- a) Date of birth: b) Sex: M / F
- Designation:.....
- Institution:
- Address for communication
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..... Pin Code:.....
- Phone (STD code) Mobile:
- Email:

- Qualifications:.....
- Specialization:.....
- Year of award of highest qualification:.....
- Years of Experience:
- Area of work/Interest:
- Whether accommodation needed: Yes/No
- Payment (including 18% GST): Rs 6844 /Rs 4130
- Payment Receipt No..... and Date.....

The information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator sufficiently in advance, in case I am unable to attend the course

Place: _____
Date: _____ Signature of the Applicant