Faculty Development Programme

Machine Learning & Data Analytics

May 23-27, 2016
FORE Campus, New Delhi

Key Features

• Program tilted heavily towards Hands-on/Laboratory oriented teaching.
• We work on real-life large data from Industry.
• You learn to analyze data using RStudio and KNIME, a top, GUI based, Analytics Engine.

Program Directors:
Prof. Ashok Kumar Harnal
& Prof. Alok Kumar

FORE SCHOOL OF MANAGEMENT, NEW DELHI
Welcome to the Brave New World of Data and Data Analytics. Gone are the days when decisions are made based purely on intuition of executives. Executives interested in transforming their enterprise and society must use two simple techniques. First, they can get in the habit of asking “What do the data say?” when faced with an important decision and following up with more-specific questions such as “Where did the data come from?,” “What kinds of analyses were conducted?,” and “How confident are we in the results?” (People will get the message quickly if executives develop this discipline.) Second, they can allow themselves to be overruled by the data; few things are more powerful for changing a decision-making culture than seeing a senior executive concede when data have disproved a hunch. As the big data movement is advancing, the role of domain experts is shifting. They are valued not for their traditional style answers but because they know what questions to ask. Pablo Picasso might have been thinking of domain experts when he said, “Computers are useless. They can only give you answers.”

Day-wise Program

**A Program very rich in Data and Visual tools.**

**Day 1:** R for Machine Learning and Statistics
- Data pre-processing with R
- R for Data Visualization

**Day 2:** R for Statistical Modeling
- Time series forecasting with R
- R for Multiple Regression analysis

**Day 3:** Clustering Techniques
- K-means method
- Hierarchical clustering

**Day 4:** Classification Techniques
- K-nearest neighbor
- Decision Trees Induction
- Support Vector Machines

**Day 5:** Predictive Analytics
- Random Forest Techniques
- Artificial Neural Network & Deep Learning
- Naive Bayes Classifiers
WHO CAN APPLY?

**Academicians**: Lecturers and Professors in any discipline who have had some brush with Excel. The techniques will expose them to a completely new World of research work.

**Executives**: Ambitious Executives looking forward to sharpening their skills at data modeling and data visualization to better understand their clients and to add more value to their organization and to society.

**Business Analyst/Data Scientists**: Predictive analytics is an important component of business analyst or data scientist’s tool-kit that can be fully applied in rigorous research work across disciplines.

**Students**: Who are motivated and aspire to innovate in their career.

SOFTWARE TOOLS

We use two very prominent analytics tools: RStudio and KNIME. KNIME has been recognized this year (2016) as falling in Gartner’s Magic Quadrant for Advanced Analytics Platform.

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**Program Dates and Timings**

A program involving new technology and using new tools has to be a little longer for participants to assimilate the techniques. It is a five-day program.

**Program Dates**: May 23rd (Monday) - 27th (Friday).

**Timings**: 9AM to 4:30 PM (with Tea and Lunch break).

**Program Coordinators**

**Prof. Ashok Kumar Harnal**: Graduated from IIT Delhi; M. Phil, MA (Economics): Expert in Big Data and Data Analytics both on the technology side as also on Analytics side. He has extensively taught faculty and students on the subject of big data technology and analytics. He has participated in various machine learning problems in areas of business & marketing.

**Prof Alok Kumar**: Dr. Alok Kumar is working as an Assistant Professor in the area of Quantitative Techniques and Operations at FORE School of Management, New Delhi. He is a graduate in Mathematics (Hons.) from University of Delhi and a Post Graduate in Operational Research from Department of Operational Research, University of Delhi. He has also been awarded Ph.D degree in Operational Research in the area of Inventory Management at University of Delhi. His area of research interest is developing mathematical models in the field of inventory management and has published numerous research papers in refereed journals of national and international repute in the field of developing models for integration of innovation diffusion theory with Inventory Management. He has several years of teaching and research experience. Prior to FORE he has taught several papers in the area of business management such as Business Statistics, Operations Research, Business Research Methods and Operations Management in different management colleges. There are 15 articles which have been published (accepted for publication) in international Journals of high repute, several articles are published in conference proceedings, numerous articles are published as book chapters, 3 articles are published as working papers and few articles have been communicated in different international journals of high repute.

**PROGRAM FEES**

It is a non-residential program. Program fees are as below:

- **Corporate**: Rs. 10000/-.  
- **Faculty**: Rs. 8000/-  
- **Research Scholar/Students**: Rs. 5000/-
ABOUT THE INSTITUTE
Foundation for Organizational Research and Education (FORE), a non-profit autonomous organization, was established in 1981 as a Center for Excellence for research, consultancy, training and management education by renowned professionals of global acclaim from Government and corporate sectors. With a view to meeting the needs of professional education of excellence in Management, FORE School of Management, New Delhi under the aegis of FORE was established in 1992. FORE has been working closely with industry and academia for developing contemporary new domains of managerial thought and education and contributing to the process of building leaders in today’s global business environment. FORE has been setting benchmarks in management education for the last over 24 years. This is aptly reflected in the Top rankings by leading B-Schools surveys of the country and in a recent survey conducted by CRISIL – a leading Ratings, Research, Risk and Policy Advisory Company in India – has rated FORE with A+++ (the highest rating level) for the Delhi-NCR and A++ for the National level for both the two-year PGDM and PGDM (IBM) programmes. Located in the heart of South Delhi, FORE provides contextual learning and helps in the development of students as thinking professionals, who have the ability to meet the upcoming challenges for tomorrow’s corporate leaders. The programmes offered at FORE aim at developing multiple skills including managerial decision-making, problem-solving, analytical reasoning, communications, creativity and innovation. The Institute has a Board of Directors with representatives from Government, academic institutions and industry. The Institute has also an Academic Council consisting of eminent professionals from industry, government and other academic institutions. FORE takes pride in its professional and high-quality faculty in the fields of Communications, Economics, Finance, Human Resource Management, Information Technology, International Business, Marketing, Operations and Strategy. The faculty are drawn from leading national and international institutions and industries who are engaged in extensive research and consultancy, and possess a myriad of management skills. Eminent personalities and senior corporate professionals are invited from time to time to share their experiences and discuss real world managerial practices and market opportunities and challenges.

With a sharp focus on Management Education, Management Development Programs, Consulting and Research, and with more than 32 full time well qualified faculty FORE stands amongst the Top Business Schools in the country.

FORE Conducts Management Development Program/Faculty Development Programs to equip managers with knowledge, skills and attitudes required for effectively responding to global developments and competitive requirements. Our MDPs/FDPs are designed with an appropriate blend of conceptual and experiential learning. Apart from open programs, FORE conducts customized In-Company tailored to suit organization’s needs on topics/areas specifically required by an organization. These Management Development Programs (MDPs) are either custom-designed to suit client requirements or are offered by faculty on a specific theme to meet various client needs.

REGISTRATION
The registration form duly filled in along with the program fees should reach us at least 7 days before the commencement dates of the program. In case of subsequent withdrawal or cancellation of registration no refund is allowed. However, substitutes may be permitted with prior permission.

CONTACT US
For registration/any other information, please contact MDP office

FORE School of Management
“Adhitam Kendra”
B-18, Qutub Institutional Area, New Delhi 110016

Phones: (011) 2685 6301 (Direct); 4124 2424-33 (Extn. 471 &-498)
Fax: (011) 26520 509, 2696 4229
Email: mdp@fsm.ac.in; FORE web-site: http://www.fsm.ac.in/
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Registration Form

Name : (Mr./Ms./Dr.) ____________________________________________

Designation : ________________________________________________

Organization : ______________________________________________

Office Address : _____________________________________________

_________________________________________ Pin _____________

Phone Nos. : _______________________________________________

Mobile : ___________________________________________________

E-mail ID : _________________________________________________

Fax : ______________________________________________________

Payment Details : (Please tick appropriate and fill)

• Payment enclosed (Local cheque/DD No.: _____________ Date : __________
  Amount : ____________________________________________

• Payment is under process and will reach you before the programme

Signature of Sponsor

(Please return the completed form by post, or fax (011 - 2652 0509; 2696 4229) or
email: mdp@fsm.ac.in, to:

MDP Office
FORE School of Management
“Adhitam Kendra”
B-18, Qutub Institutional Area, New Delhi 110 016

Note: As needed, please feel free to make duplicate copies of this form for additional registration.)
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