ONLINE TRAINING PROGRAM

BIG DATA ANALYTICS

OVERVIEW

Large volume data sets which are both structured and unstructured is generated on a daily basis in business organisations. It's not the amount of data which is important; rather, what matters is what organisations do with this data. These large data sets can be analysed for insights that lead to better and informed decision-making and predictive analysis so that organizations can achieve strategic business objectives. Data Analytics uses various techniques like mathematics, statistics, predictive modelling, predictive analysis, and machine-learning to find meaningful patterns in large data sets. In a power distribution utility, there are various sources of Big Data, including grid equipment, smart meters, weather data, measurements from power systems, GIS data, storm data, and data related to asset, finance, human resource management etc. These data resources if used efficiently can bring in operational efficiencies, reduce costs, lower carbon emissions, and manage energy demand for end consumers.

OBJECTIVE

This training module focuses on applications of big data analytics on smart electric power distribution systems and the use of Large Scale (Big) Data Analytical methods and their application to electric distribution system analysis and design. The basics of big data analytics and the electric power distribution system will be introduced. Some critical data driven applications in electric power distribution systems will be studied closely. These include distribution system topology identification using smart meters data, anomaly detection in power distribution systems, load and demand response forecasting, predictive maintenance of transformers etc.

Topics to be covered

Big Data in Power Distribution Systems Volume, Variety, Velocity, and Value

Big Data Applications In Distribution Systems:

- Network Planning using Analytics
- Process optimization using Analytics
- Inventory Optimization Analytics
- Revenue Leakage Analytics
- Detection of 'Payment Default'
- Energy Demand Forecasting
- Predictive Maintenance of Transformers
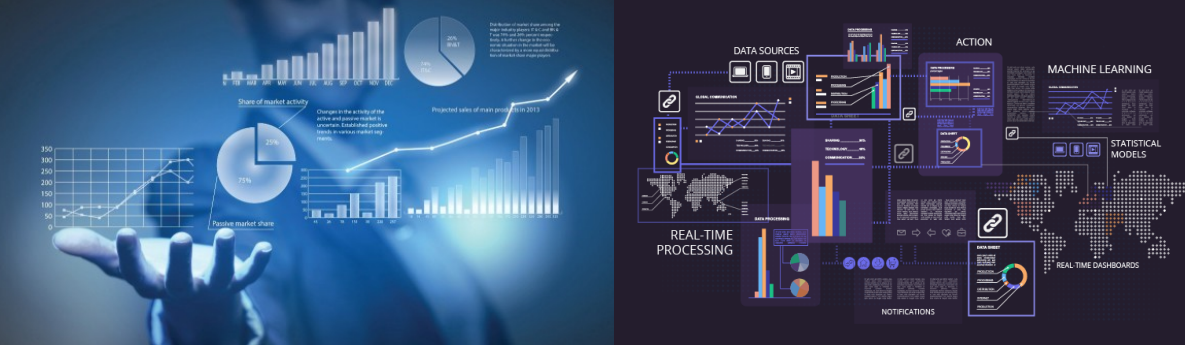- Feeder Tripping Prediction

People analytics

Solar Adoption Analytics

Data Driven Analytics in Smart Electric Power Distribution Systems

Cash Flow optimization

TRAINING METHODOLOGY

- The Online Training would be conducted on Tata Power-DDL's WebEx Event Platform
- Participants can attend the Training through any device like Desktop / Laptop / Tablet / Smart Phone
- Each Session would be of 2 hour duration including Q&A session to take up question and points that need more clarity by the participants.
- The presentation would be shared with all participants after the end of the Program

PROGRAM FEE	DESCRIPTION OF CHARGES	UNIT RATE
	Cost of **Online Training** *comprising of 4 sessions* **for upto 30 participants** from one company • Cost per Session – Rs 12,500 • Cost for 4 different sessions – Rs 12,500 x 4 sessions = Rs. 50,000 • Taxes and Levies extra	Rs. 50,000
	Cost of **Online Training** *(comprising of 4 sessions spread across 2 days)* **for every additional participant over and above 30 participants** from one company excluding applicable taxes and levies • Cost per Session – Rs 500 • Cost for 4 different session – Rs 500 x 4 sessions = Rs. 2,000 • Taxes and Levies extra	Rs. 2,000
	Remarks: Includes Online Training Cost, Course material and Presentations, Certificate of Participation	

The fee is payable either through Cheque or Demand Draft favouring "Tata Power Delhi Distribution Limited, New Delhi" crossed 'A/C payable only' or in case of direct ECS you can pay into A/C no. 00030310011605, HDFC Bank Ltd. Branch, G-3-4, Suryakiran Building, 10, KG Marg, New Delhi-110001, IFSC Code: HDFC0000003

Payment Terms: 100% advance after confirmation of nomination.

WHOM TO CONTACT

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