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QT&T
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QUALITY TRAINING TECHNOLOGY

Course Overview

The amount of data in our world has been exploding, and analyzing large data sets demands unique skills sets. The world is looking for Data "scientists" who can bring insights from these datasets that can benefit the organization's top line and bottom line. This workshop shall include various tools, concepts, case studies, exercise to build data scientist skill sets. We shall use the programming language R. Some of you must have heard about it and there are innumerous discussions on this tool already. Attend this workshop to gain hands on experience with R.

Key Takeaways

Upon completion of this course, the participant will gain competencies to

- Gain an understanding of how data scientists can help your organization achieve its business priorities.
- Build a foundation for using big data and advanced analytics to reach your organization's business goals
- Identify the unique needs and tailored recommendations based on that analysis
- learn real-world case studies of the big data advanced analytics value proposition.
- Develop high-level roadmaps to help guide subsequent implementation
- Engage with analytics/big data consultants to develop a proof of concept and business case.

Course Deliverables

- Training conducted by highly experienced Data scientists consultants
- Datascientist/Big data jumpstart guide
- Data Scientist certification
- PDUs – 18 Pdu's for Certified PMP.

Target Audience

Business managers/consultants who wish to increase their general understanding of Data Scientist and those who wish to achieve a detailed understanding of Data science in order to implement big data techniques/analytics in their organization. Team members, stakeholders, and/or managers who require certification, a more detailed understanding of Data Science and want to advance their project management career.

Course Pre-requisites

Download R and install from http://cran.r-project.org/ in your laptop

Day 1	Introduction	Evolution of R and its current role in Analytics Industry
	Working with R	Getting started with R console, loading external packages and data manipulation
	Basic Statistics	Hands on exposure to statistical techniques and exploratory data analysis
	Data Visualization	Tips and techniques for implementing visualization packages in R
	Regression	Simple Linear Regression, ANOVA, ANCOVA, Multivariate Regression, Model Diagnostics, Assumptions, etc.
	Case Studies/Lab exercises	
Day 2	Logistic Regression with R	Binomial, Multinomial, Ordinal.
	Time Series analysis with R	Stationary and Non-stationary time series, ARMA, ARIMA, VAR, Auto Correlation Function, Partial Auto Correlation Function.
	Case Studies/Lab exercises	
Day 3	Non parametric analysis with R	PCA, Factor Analysis, Cluster Analysis, Genetic Programming, CART, etc.
	Case Studies/Lab exercises	
	Assessment Exam	
	Wrap –up session.	

For more details:
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