DATA SCIENCE AND BIG DATA ANALYTICS

An 'open' course to unleash the power of Big Data



"We live in a data-driven world. Increasingly, the efficient operation of organizations across sectors relies on the effective use of vast amounts of data. Making sense of big data is a combination of organizations having the tools, skills and more importantly, the mindset to see data as the new "oil" fueling a company. Unfortunately, the technology has evolved faster than the workforce skills to make sense of it and organizations across sectors must adapt to this new reality or perish."

 Andreas Weigend, Ph.D Stanford, Head of the Social Data Lab at Stanford, former Chief Scientist, Amazon.com



ORDER YOUR STARTERKIT TODAY!

Become a certified Data Science Associate (EMCDSA)

- Immerse yourself in a near-classroom experience without the need for traveling
- Learn from top EMC subject-matter experts at your own pace
- Access complete student materials including slides and hand outs
- Leverage modular content tailored to your unique learning needs
- View recorded walk-through lab demonstrations
- Prepare for the E20-007 Data Science and Big Data Analytics certification exam
- Ask questions or discuss topics with experts and peers via online community

Visit: http://education.EMC.com/DataScience



DATA SCIENCE AND BIG DATA ANALYTICS COURSE

An 'open' course and certification focused on concepts and principles applicable to any technology environment and industry.

This course is intended for:

- Business and data analysts looking to add big data analytics skills
- Managers of business intelligence, analytics, or big data groups
- Database professionals looking to enrich their analytic skills
- College graduates considering data science as a career field

The course provides a hands-on* practitioner's approach to the techniques and tools required for analyzing Big Data.

The course is designed to enable students to:

- Become an immediate contributor on a data science team
- Assist reframing a business challenge as an analytics challenge
- Deploy a structured lifecycle approach to data analytics problems
- Apply appropriate analytic techniques and tools to analyze big data
- Tell a compelling story with the data to drive business action
- Use open source tools such as R, Hadoop, and Postgres
- Prepare for EMC Proven™ Professional Data Scientist certification

Visit http://education.EMC.com/DataScience to

- Register for the Data Science and Big Data Analytics StarterKit
- Access additional information on the course and the certification

^{*} The Video ILT includes recorded walk-through lab demonstrations.

DATA SCIENCE AND BIG DATA ANALYTICS COURSE OUTLINE

Applying a hands-on practitioner's approach to the techniques and tools required for Big Data Analytics.



Big Data State of the practice in Overview analytics

The role of the Data Scientist

Big Data Analytics in industry verticals

Introduction to Big Data Analytics



Key roles for a successful analytics project

Main phases of the lifecycle

Developing core deliverables for stakeholders

End-to-end data analytics lifecycle



Introduction to R

Analyzing and exploring data with R

Statistics for model building and evaluation

Using R to execute basic analytics methods



K-Means Clustering Association Rules Linear and Logistic Regression Naïve Bayesian Classifier

Decision Trees Time Series Analysis Text Analysis

Advanced analytics and statistical modeling for Big Data – Theory and Methods



Using MapReduce/Hadoop for analyzing unstructured data

Hadoop ecosystem of tools

In-database Analytics MADlib and Advanced SQL Techniques

Advanced analytics and statistical modeling for Big Data - Technology and Tools



How to operationalize an analytics project

Creating the Final Deliverables

Data Visualization Techniques Hands-on Application of Analytics Lifecycle to a Big Data Analytics Problem

Endgame, or Putting it all together

CONTACT US

Engage your local Education Services Consultants for local pricing information.

Online: http://education.EMC.com/Contact Phone: 1-888-EMC-TRNG (888-362-8764)



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