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E20-007

Data Science and Big Data Analytics Exam

Exam overview

This exam focuses on the practice of data analytics, the role of the Data Scientist, the main phases of the Data Analytics Lifecycle, analyzing and exploring data with R, statistics for model building and evaluation, the theory and methods of advanced analytics and statistical modeling, the technology and tools that can be used for advanced analytics, operationalizing an analytics project, and data visualization techniques. Successful candidates will achieve the EMC Proven Professional – Data Science Associate credential.

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Exam Topics

Topics likely to be covered on this exam include:

Big Data Analytics, and the Data Scientist Role

- The characteristics of Big Data
- The practice of analytics
- The role and required skills of a Data Scientist

Data Analytics Lifecycle

- Discovery
- Data preparation
- Model planning and building
- Communicating results
- Operationalizing a data analytics project

Initial Analysis of the Data

- Using basic R commands to analyze data
- Using statistical measures and visualization to understand data
- The theory, process, and analysis of results to evaluate a model

Advanced Analytics for Big Data – Theory and Methods

- K-means clustering
- Association rules

- Linear regression
- Logistic Regression
- Naïve Bayesian classifiers
- Decision trees
- Time Series Analysis
- Text Analytics

Advanced Analytics for Big Data – Technology and Tools

- MapReduce
- Hadoop Ecosystems
- SQL OLAP extensions, Windows functions, user defined functions, and aggregates
- MADlib

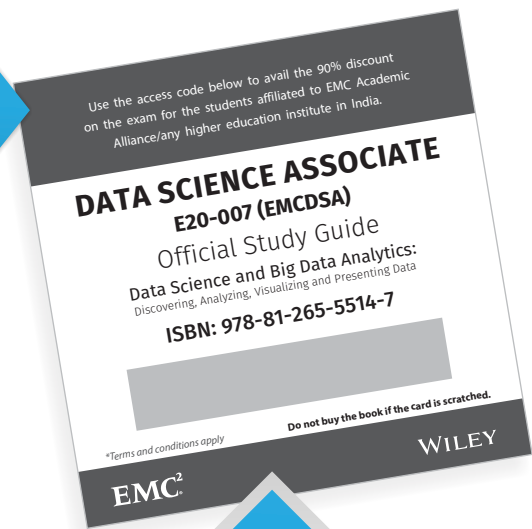
Operationalizing an Analytics Project and Data Visualization Techniques

- Best practices for operationalizing an analytics project
- Best practices for planning and creating effective data visualizations

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