



Consulting and Training | Reach New Heights

Course Name

Leveraging Big Data in R&D Decision Making

Sector Name

Digital Transformation and Innovation

Document Type

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Leveraging Big Data in R&D Decision Making

Course Introduction

This course focuses on harnessing the power of big data to enhance decision-making processes in R&D. It covers big data technologies, analytical methods, and strategies for integrating big data insights into R&D operations and strategic planning.

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Leveraging Big Data in R&D Decision Making

Target Audience

- ✓ R&D Managers and Directors
- ✓ Innovation Managers
- ✓ Product Development Managers
- ✓ Chief Technology Officers (CTOs)
- ✓ Strategy and Planning Professionals
- ✓ Business Development Managers
- ✓ Engineering Managers
- ✓ Senior Executives overseeing R&D-business integration

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Learning Objectives

- ✓ Identify the potential of big data in R&D contexts
- ✓ Learn to identify and utilize relevant big data sources for R&D
- ✓ Develop skills in big data analytics and interpretation
- ✓ Enhance decision-making processes using big data insights
- ✓ Gain knowledge of big data technologies and infrastructures for R&D

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Course Outline

✓ **01 Day One**

Big Data Fundamentals for R&D

- ✓ Introduction to big data in R&D contexts
- ✓ Big data sources relevant to R&D (internal, external, structured, unstructured)
- ✓ Challenges and opportunities of big data in R&D
- ✓ Case study: Big data success stories in R&D

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Course Outline

✓ 02 Day Two

Big Data Technologies and Infrastructure

- ✓ Big data architectures for R&D environments
- ✓ Data lakes and data warehouses in R&D contexts
- ✓ Cloud computing and big data processing
- ✓ Workshop: Designing a big data ecosystem for R&D

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Course Outline

✓ **03 Day Three**

Advanced Big Data Analytics for R&D

- ✓ Machine learning and AI for big data in R&D
- ✓ Real-time analytics and streaming data in R&D processes
- ✓ Text mining and natural language processing for research data
- ✓ Hands-on session: Big data analysis techniques

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Course Outline

✓ 04 Day Four

Decision Making with Big Data in R&D

- ✓ Integrating big data insights into R&D decision processes
- ✓ Risk assessment and mitigation using big data
- ✓ Predictive modeling for R&D project outcomes
- ✓ Simulation: Making R&D decisions with big data inputs

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Course Outline

✓ **05 Day Five**

Implementing Big Data Strategies in R&D

- ✓ Developing a big data roadmap for R&D
- ✓ Change management for big data adoption
- ✓ Ethical and privacy considerations in big data R&D
- ✓ Action planning: Leveraging big data in your R&D organization

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Nov. 9, 2026	Nov. 13, 2026	5 days	5950.00 \$	USA , Los Angeles
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
May 23, 2027	May 27, 2027	5 days	4250.00 \$	KSA , Riyadh
Sept. 21, 2026	Sept. 25, 2026	5 days	4250.00 \$	UAE , Abu Dhabi

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