

Training Catalogue 21/05/2020

KAÏNA-COM TRAINING CATALOGUE

Introduction to Big Data Architecture





Nos locaux KAÏNA-COM France LE CARRÉ HAUSSMANN II 6 Allée de la Connaissance 77 127 Lieusaint





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KDS010 – Introduction to Big Data Architecture

Reference	KDS010	
Experience	 Beginner Intermediate Advanced 	
Duration	Training Program: • 1 day	
Training Method	 I: i-learning, individual training (web-based training) V: v-learning, virtual class C: c-learning, classroom training KAÏNA-COM LE CARRÉ HAUSSMANN II, 6 Allée de la Connaissance 77127 Lieusaint - France 	
Price	688,50 € HT	
Prerequisite	The course requires experience and knowledge of traditional computer systems architectures	
Audience	This course is aimed to provide CTOs, Architects, Technical leaders and Team leaders an insight of the way data at large scale could be used within their organizations and how commonly it is done.	
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KDS010 – Introduction to Big Data Architecture, Continued

Objective This course takes a look at the Big Data landscape and provides basic understanding of Big Data concepts, technologies and their applications. By providing real usage examples it allows participants to understand better how Data could be used to better serve their businesses while introducing few implementation best practices. This course is aimed to provide CTOs, Architects, Technical leaders and Team leaders an insight of the way data at large scale could be used within their organizations and how commonly it is done. It should serve as an entry point to examine what is possible. The course requires knowledge of traditional computer systems architectures.

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KDS010 – Introduction to Big Data Architecture, Continued

Course Contents

Course Contents :

Table 1: KDS010 - Course Contents

Chapter	Description			
	Brief History			
	Big Data / Data Science / Analytics			
Introduction	 Collection of data from different sources (internal/external) 			
	Open Source Tools			
	 Sample Usages Scaling Data IoT 			
	Volume Velocity Variety			
Pic Data	 Structured vs. Unstructured Data 			
BIG Data	Immutable Data			
	System Requirements			
	NoSQL			
	 Ability to access and process data 			
	Stream Processing			
	 Sample Usages Page Rank Marketing 			
Analytics	Decoupled Systems – ETL			
	• Data Lake			
	 Analytics vs, traditional warehouse 			
	 Sample Usages Vision (OCR, face, logo, label) NLP (syntax analysis, sentiments,) 			
Data Science	 Machine Learning Supervised Learning Unsupervised Learning Clustering 			
	• Deep Learning			

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KDS010 – Introduction to Big Data Architecture, continued

Course Contents		
continued	Chapter	Description
	Tools	 Processing Frameworks Hadoop Spark Stream Processing Apache BEAM Storage Tools Search Engines Analytics Visualization Machine Learning Deep Learning Software Infrastructures
	Big Data on the Cloud	 Evolution Storage Analytics Machine Learning Serverless Computing
	Conclusion	Sample Architectures
	The End	 Q&A Course's Evaluation







