DATAMICS
machine intelligence consulting services

Big Data Training

„Our Big Data trainings have the focus on best practise use cases with a high business impact. These will be verified in simplified analytics exercises."

Key Take-aways

- ✓ Big Data Overview
- ✓ Prioritized Use Cases
- ✓ Big Data Architecture

Target Group

All Departments,
IT, Marketing, Data Science,
Engineering, Security, Research

Course

- ✓ 3 - 10 Participants
- ✓ Hands-on Exercises
- ✓ German or English

We are datamics...

...providing end-to-end machine intelligence consulting services in the area of big data, data science and data engineering. Our mission is to solve complex business problems by planning, developing, analysing and predicting business improvements.

Contact us

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Program

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Day 1: Use Case Development

The first day of our workshop begins with an introduction of key technologies, players and challenges in big data. It is a good way to dip your toe in the big data ocean and to bring all participants to a same level of big data basics. A wide set of Best Practice Cases are discussed in order to support theory, technics and analytics. During the training, a continuous process allows to discuss how these cases can be applied to your company and departments. As a result, we will create together a priorized set of business cases regarding to their impact and realisation effort. The following questions are answered: What is Big Data? How do we tackle Big Data? Why are we interested in it? What is a Big Data platform? What are the business impacts of Big Data?

- Big data introduction
- Use Case Development
- Use Case Prioritizing
- Project Roadmap
- Demo & Exercises

Day 2: Data Science

The second day of our workshop targets Big Data Science and its potentials for business improvements. After an introduction in Data Science, we will present a selection of different visualization tools and techniques (e.g. Tableau and Datameer). Additionally, the participants will implement some analytical examples in hands-on exercises. A specialisation will be the usage of smart analytics such as "machine learning" and "deep learning" that promise a high business impact by predictions. The following questions are answered: What is Data Science? How to make simple analytics? How to achieve a business advantage? Which algorithms can be used?

- Basic Analytics
- Visualization
- Time-Series & Predictions
- Machine & Deep Learning
- Demo & Exercises

Day 3: Data Engineering

Day three proposes recommendations on how to process big data on platforms that can handle the variety, velocity, and volume of data by using a family of components that require integration and data governance. Therefore, we compare tools and architectures such as real-time, NoSQL and Hadoop. The Hadoop Ecosystem and its components are presented in more detail in order to build a datalake. The data source detection and the problem of data integration will be discussed separately. The following questions are answered: Which Big Data architectures should be used? Which tools do I need to solve my cases? How to setup a Big Data Platform? What are the problems of the data import?

- Tools Overview
- Hadoop Ecosystem
- Real-time Analytics
- Data Source Identification
- Demo & Exercises

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