



Data Mining for everyone

Digital transformation is reshaping the way organizations operate, and the ability to mine and make sense of large volumes of data now sits at the center of that change. Companies in finance, healthcare, telecommunications and many other fields depend on these skills every day. The road is rarely smooth, however: data is often locked away in silos, processing can be slow, and experienced professionals remain in short supply. Bridging that gap begins with a genuine command of the algorithms and tools that turn raw data into sound decisions.

This course walks through the foundations of big data, its core concepts, the broader technology ecosystem around it, and the Hadoop platform that underpins so much of it. It then turns to how analysis and mining work in practice, covering the algorithms and the tools you are most likely to reach for. The aim is straightforward: to give learners a clear, well-structured view of the field and a foundation solid enough to support real projects.

Duration : 6 hours

Course Objectives

By the end of this training, learners will be able to:

1. Explain the fundamental concepts of big data and see how the surrounding technology ecosystem fits together.
2. Describe how the Hadoop big data platform works and what it is used for.
3. Follow the full analysis-and-mining workflow, from raw data through to actionable insight.
4. Recognize the algorithms that appear most often in big data work and know when each one applies.
5. Put to use the everyday tools that support big data analysis and mining.

LEVEL Foundational

Course Content :

- 00 Getting Started with Data Mining
- 01 Foundational Concepts and the Data Mining Technology Landscape
- 02 Working with the Hadoop Big Data Platform
- 03 Understanding the Business and the Data
- 04 Preparing and Processing the Data (Part 1)
- 05 Preparing and Processing the Data (Part 2)
- 06 Fundamentals of Data Modeling and Algorithms
- 07 Algorithms Commonly Applied in Data Mining
- 08 Essential Python Tools for Data Mining
- 09 Applied Case Study : Telecom Operator Scenarios
- 10 Applied Case Study : Enterprise Scenarios