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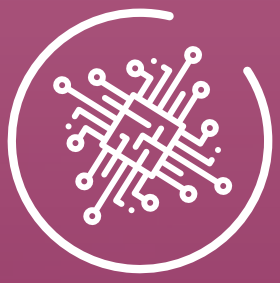


Big Data

DM102

40
Academic Hours

Big Data

Outline

The course delivers the key concepts of Big Data. Participants will get familiar with the main technologies involved and with the architectures behind them. Among other, the course will go over the Hadoop Eco-system, Spark and NoSQL databases. The course will also discuss the challenges faced by Big Data developers and what are the recommended tools to use in a given situation.

Target Audience

- Developers
- Architects
- Analysts
- DBAs

Objectives

On completing this course delegates will be able to effectively design a process that handles a massive amounts of data using up to data Big Data technologies

Prerequisites

Basic knowledge of database concepts and development environments

Content

Module 01
Introduction to Big Data

- Key concepts
- Use cases
- Major technologies involved

Module 02
Introduction to the Hadoop Ecosystem

- Problems with Traditional Large-scale Systems
- The Hadoop Eco-System

Module 03
Hadoop Architecture

- Distributed Processing on a Cluster
- Storage: HDFS Architecture
- Storage: Using HDFS
- Resource Management: YARN Architecture

Module 04
Importing Data into Hadoop

- Sqoop, Flume and Kafka

Module 05
Process data over the cluster

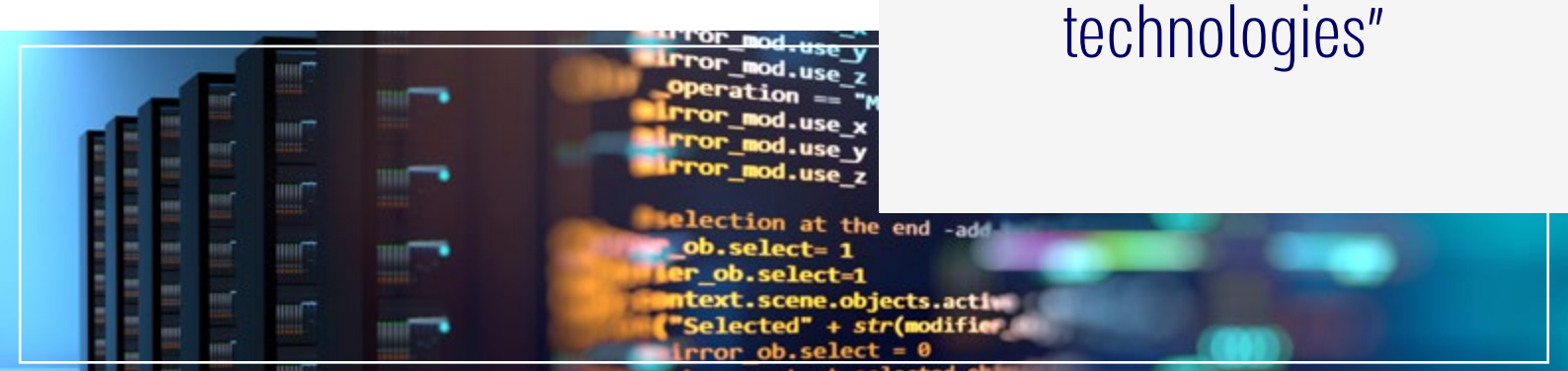
- Introduction to Hive
- Introduction to Spark
- Other tools

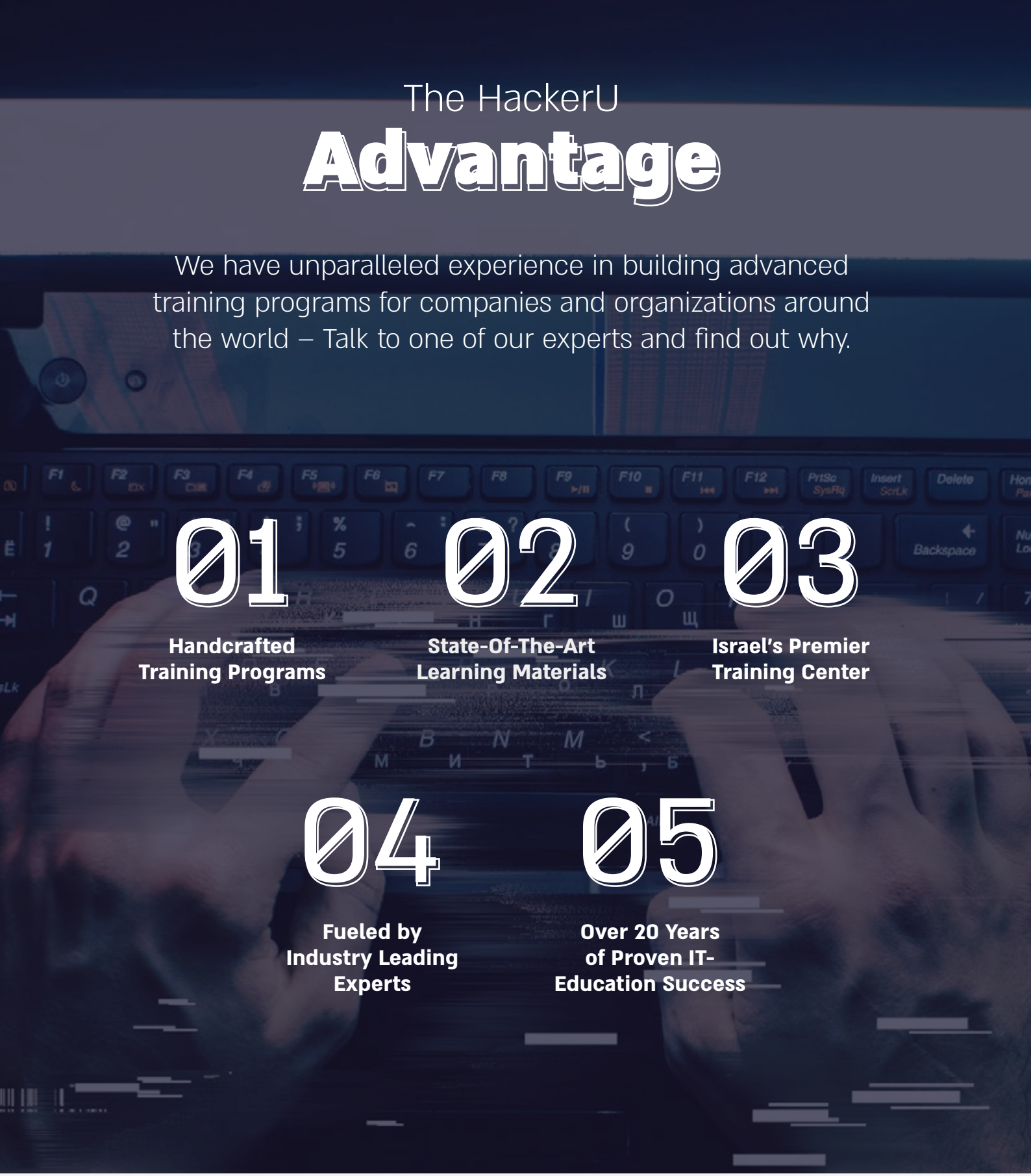
Module 06
NoSQL

- Basic concepts
- NoSQL families
- Major players in the market

"

design a process that **handles a massive amounts of data** using up to data Big Data technologies"





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