KOENIG SOLUTIONS · COURSE OUTLINE

Blockchain Data Science: Engineering & Analytics

Learn to apply blockchain to data science workflows, from engineering trustworthy data to launching your first blockchain data project.

5
MODULES

36
TOPICS

COURSE OVERVIEW

This course traces the evolution of data-driven approaches and examines why traditional, centralised data science is heading towards a breaking point. It explains how blockchain addresses data engineering and analytics challenges by improving data completeness, trustworthiness and access. The course reviews real-world blockchain data science use cases across industries, organisation types and departments, then covers offensive and defensive strategies for adopting blockchain into data science workflows and launching a first project.

WHO THIS COURSE IS FOR

- **Data Scientists**
- **Data Engineers**
- **Business Intelligence Analysts**
- **Blockchain Strategists**
- **Data Analytics Managers**

LEARNING OBJECTIVES

- Describe the origins and progress of data-driven approaches
- Explain why centralised data science faces growing limitations
- Assess blockchain as a solution for data engineering and analytics
- Identify blockchain data science use cases by vertical and department
- Compare offensive and defensive strategies for blockchain adoption
- Plan a data maturity stage audit for a first blockchain project
- Evaluate build-or-buy options for blockchain data science solutions

COURSE SYLLABUS

5 Modules, 36 Topics

01

How We Got to Now: The Digital Data Transformation

TOPICS

- The origin of data-driven approaches in government, academia and business

PROGRESS IN DATA FACTOR MARKETS

- Data connectivity
- Data storage
- Data processing

QUANTIFICATION OF EVERYTHING

- IoT
- Smart Cities
- Wearables
- A brave new world of perfect information

02

Where Data Science Is Headed: The Coming Datapocalypse

TOPICS

- The dependency of data science on the theory of variance
- Why data centralization will kill traditional data science
- Why most organizations are will be prepared for the coming wave of data
- Why most organizations are totally unprepared for blockchain data

03

Why Blockchain Is the Solution for Data Science

BLOCKCHAIN AS A DATA ENGINEERING SOLUTION

Defined quantification · Data completeness · Data trustworthiness

BLOCKCHAIN AS A DATA ANALYTICS SOLUTION

Data access and preparation · Data scope and data totality improvements · New data science frameworks

04

Examples of Successful Blockchain Data Science Projects

USE CASES BY VERTICAL

Finance · Ecommerce · Healthcare · Fintech & SaaS

USE CASES BY ORGANIZATIONAL TYPE

SMBs · Enterprises · Government · NGOs

USE CASES BY ORGANIZATIONAL DEPARTMENT

Business Intelligence · Marketing · Customer Experience Management · Procurement & Fulfillment

05

How to Get Started with Your First Blockchain-Based Data Science Project

OFFENSIVE STRATEGIES FOR ADOPTING BLOCKCHAIN INTO DATA SCIENCE WORKFLOWS

- Data maturity stage audit
- Prioritizing blockchain data science projects
- Build or buy blockchain data science solutions

DEFENSIVE STRATEGIES FOR ADOPTING BLOCKCHAIN INTO DATA SCIENCE WORKFLOWS

- Competitive intelligence and secondary research
- Macro metric correlations for blockchain data science models
- Game theory and “best response” actions

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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