Data Science and Blockchain

Course Summary

Description
This course reviews why blockchain is the future of data science. There are many decisions and issues that face the technical team and data leadership, and this class will enable participants to effectively make those decisions both offensively and defensively.

Objective
Upon completion of this course, Student will learn:

- How we got to now: the digital data transformation
- Where data science is headed: the coming datapocalypse
- Why blockchain is the solution for data science
- Examples of successful blockchain data science projects
- How to get started with your first blockchain-based data science project

Audience
This course is intended for technical leaders who make technical decisions about their data science architecture, analytical environments, and organizational insights delivery.

Topics

- How we got to now: the digital data transformation
- Where data science is headed: the coming datapocalypse
- Why blockchain is the solution for data science
- Examples of successful blockchain data science projects
- How to get started with your first blockchain-based data science project

Prerequisites
No Prerequisites - An individual with prior knowledge or training in Data Analytics or Data Research will gain the most from this course

Duration
Three Days
Course Outline

I. How we got to now: the digital data transformation
   A. The origin of data-driven approaches in government, academia and business
   B. Progress in data factor markets
      1. Data connectivity
      2. Data storage
      3. Data processing
   C. Quantification of everything
      1. IoT
      2. Smart Cities
      3. Wearables
   D. A brave new world of perfect information

II. Where data science is headed: the coming datapocalypse
   A. The dependency of data science on the theory of variance
   B. Why data centralization will kill traditional data science
   C. Why most organizations are ill prepared for the coming wave of data
   D. Why most organizations are totally unprepared for blockchain data

III. Why blockchain is the solution for data science
    A. Blockchain as a data engineering solution
       1. Defined quantification
       2. Data completeness
       3. Data trustworthiness
    B. Blockchain as a data analytics solution
       1. Data access and preparation
       2. Data scope and data totality improvements
       3. New data science frameworks

IV. Examples of successful blockchain data science projects
    A. Use cases by vertical
       1. Finance
       2. Ecommerce
       3. Healthcare
       4. Fintech & SaaS
    B. Use cases by organizational type
       1. SMBs
       2. Enterprises
       3. Government
       4. NGOs
    C. Use cases by organizational department
       1. Business Intelligence Management
       2. Marketing
       3. Customer Experience Management
       4. Procurement & Fulfillment

V. How to get started with your first blockchain-based data science project
    A. Offensive strategies for adopting blockchain into data science workflows
       1. Data maturity stage audit
       2. Prioritizing blockchain data science projects
       3. Build or buy blockchain data science solutions
    B. Defensive strategies for adopting blockchain into data science workflows
       1. Competitive intelligence and secondary research
       2. Macro metric correlations for blockchain data science models
       3. Game theory and “best response” actions

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