

Blockchain For Financial Services

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Duration : 5 DAYS

Objectives

Understanding the fundamentals of blockchain technology, how it works, its history and design principles.

Blockchain implementation for Financial Management

Understanding the challenges and possibilities, and getting a foundational understanding that will help you to make investments and analyse news.

Navigate the blockchain space with a new-found understanding and terminology.

Introduction to Functional Finance

- Finance in the Economic world
- Overview of Financial Management
- Challenges in Financial system

Blockchain Architecture

- What is Blockchain?
- Why Blockchain is a Distributed P2P network?
- Benefits of using Blockchain Technology
- What are different Blockchain technologies?
- Blockchain Architecture
- Components of Blockchain Ecosystem
- Blocks, Wallets and Addresses
- Public and Private Key
- Merkle Tree and Hashing
- Cryptography and Blockchain Algorithms
- Types of Blockchain
- Transaction execution & distribution

- Consensus Mechanisms
- Working Principle of Mining
- What are Smart Contracts?

Assimilation of Functional Finance

- How Blockchain change current Face of Financing
- Blockchain in Financial System
- Vendor Perspective about Blockchain in Financial Services
- Advantages of blockchain in Financial Services

Overview on Blockchain concepts

- Networked Integrity
- Distributed Power
- Value as Incentive
- Security
- Privacy
- Rights Preserved
- Inclusion

Public and Private Ledgers

- The Benefits of Shared Knowledge
- How Much is Too Much Transparency
- Centralized Registries vs. Distributed Ledger
- Public vs. Private Ledgers
- Transparency as a Strategic Risk
- Transparency as a Strategic Asset
- Usage of Multiple IDs
- Zero Knowledge Proofs
- Implementation in Public vs. Private Blockchains

Cryptoassets

- Overview
- Cryptocurrencies
- Three Types of Cryptocurrencies

- Protocol Tokens
- Utility Tokens (App Coins)
- Security Tokens
- Natural Asset & Commodity Tokens
- Crypto-collectibles
- Crypto-fiat Currencies and Stablecoins

Smart Contracts

- What Are Smart Contracts?
- Smart Contract Phases
- Smart vs. Traditional Contracts
- Smart Contracts and Law
- Smart Contract Application Areas
- Smart Contract Strategies & Best Practices for the Organization

Identity

- Introduction to Identity and Identifiers
- Five Problems With Identifiers
- Distributed, Self-sovereign Identity Systems
- Blockchain Identity Applications

DApps and Distributed Business Models

- Distributed Business Entities
- The DAO: A Cautionary Tale
- New Business Models Part 1
- New Business Models Part 2
- What Are DApps?
- Example: bAirbnb
- Patents and Blockchain Innovation
- Payments, Attribution, and Licensing
- Distributed Ownership

Accounting and Financial Management

- Decentralizing the Enterprise
- Transaction Costs and the Structure of the Firm
- Opportunity 1: Search
- Opportunity 2: Contracting
- Opportunity 3: Coordination
- Opportunity 4: Building Trust
- Problems With Modern Accounting
- The World Wide Ledger
- The CFO

Global Payments and Prosperity

- International Clearing and Settlement
- Rethinking Central Banking
- Stablecoins
- Economic Inclusion & Prosperity

Blockchain Regulation and Governance

- Intro to Blockchain Regulation
- Fundamental Questions
- Regulatory Principles
- Regulation vs. Governance
- The Blockchain Stack
- Multiple Layers of Blockchain Governance
- A New Framework for Blockchain Governance
- Profile of a Blockchain Hotbed

Use Case in Financial Management

- Cross Border Payments
- Syndicate Lending
- Digital Identity Verification

- Trade Finance