

BlockChain Course Overview

Blockchain is in a position to become a disruptive computing paradigm after mainframes, PCs, the Internet, and mobile / social networking with the potential for re-configuring all human activity as previously done by Web. Blockchain technology is behind digital currency called as 'Bitcoin' however, it is much more significant. It is a Distributed DataBase, with the help of blockchain technology and we can host the transactional data by millions of computers at a time and we can retrieve the data at any time, this data is not available for the hacker to corrupt. Blockchain training is conducted by the real-time expert with real-time scenarios.

Who can take this Course

Students and professionals, anyone Interested in learning new technology can take this Blockchain course. This technology is beneficial for the software developers, professionals in Banking and financial sector.

Pre-Requisites for Course

- Developers with **Object Oriented Language** experience is required.
- Should have a fundamental knowledge of Linux and Command Line.
- Having a fundamental knowledge of **Linux, NodeJS** and JavaScript are beneficial.

Duration of BlockChain Training

BlockChain Course Content Overview

Introduction to Blockchain

- What is Blockchain?
- History of Blockchain
- Explaining Distributed Ledger
- Blockchain ecosystem
- Explaining Distributed Ledger

Types of Blockchain

- Private/Consortium/Permission-less
- Public/Permissioned implementation difference
- What Blockchain has to offer across Industry?
- Companies currently using Blockchain
- Overview of what we are going to study in this course

Key Concepts of the Blockchain

- Mining -Mining algorithm
- Node, peer and block explanation
- Merkle tree and Blockchain
- Consensus Mechanisms- proof of work , proof of stake
- How Bitcoin Blockchain works?
- What is Transaction?

Introduction to Ethereum

- Ethereum : Blockchain with smart contract
- What is Ether?
- Bitcoin vs. Ethereum Blockchain
- What is Ethereum wallet?
- What is Smart Contract?
- Ethereum clients
- Geth Introduction
- Setting up Private Blockchain using Geth

Learn Solidity

- Introduction to solidity
- Hands on solidity
- Understand and implement different usecases
- Implement and deploy smart contract on Blockchain

Implement Dapp

- Setting up the environment
- Tools to install – Truffle , Metamask , Testrpc
- Implement and deploy your first Dapp
- Different usecases for implementation of Dapp

Future Scope

- Talk about the future of the Blockchain
- What is Hyperledger?
- What is Hashgraph?
- Discussion on current research on Blockchain
- Understand current industry challenges and needs
- **Conclude** the course

- **What you will learn in this blockchain online training course?**

- Guide to the blockchain technology & Bitcoin cryptocurrency
- The concept and relevance of blockchain
- The topic of blockchain network
- Introduction to bitcoin mining
- How transactions are performed using blockchain
- Introduction to smart contracts
- The languages used in blockchain contracts
- Deploying transactions on the blockchain node
- Work on real world blockchain project

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