

## **Workshop on "Blockchain Tech" ( Why it matter series)**

### **What you'll learn**

You will gain the ability to develop decentralized applications for Ethereum. First, you will learn the basics of blockchain and the Ethereum platform. Next, you will discover how to develop smart contracts using Solidity, how to interact with smart contracts, and how to create an efficient development environment for Ethereum projects. Finally, you will explore how to develop web applications that interact with an Ethereum blockchain. When you're finished with this course, you will have the skills and knowledge of the Ethereum platform needed to develop your applications for both public and private networks.

**(Two days Workshop on "Blockchain and Application ).**

### **Module\_1**

Blockchain Fundamentals\_

Introduction.

Blockchain Concept.

Introduction to Ethereum and DAPPS.

Setting up a development Environments.

Understanding Smart Contract.

Sample Application FoodSafe.

### **Module \_2**

The state of Blockchain \_

Trust in the Digital Era.

Exploring Bitcoin.

Defining Blockchain.

What should you Store on Blockchain?

Do you Actually need a Blockchain?

### **Module\_3**

Developing Application on Ethereum Blockchain\_

Ethereum Protocol.

Getting Started With Smart Contracts.

Solidity Programming Language.

Ethereum API.

Truffle Framework.

Developing Advanced Smart Contracts.

Web Application With Ethereum.

### **Module\_4**

Deploying Ethereum with AWS Blockchain Templates\_

Introducing Ethereum.

Using Aws Blockchain Templates For Ethereum.

Deploying a simple smart Contracts App to the networks.

### **Module\_5**

Building Blockchain With Hyper ledger\_

Introduction to Hyper ledger.

Building a hyper ledger Fabric network.

Working with hyper ledger Iroha.

Working With Hyper ledger Sawtooth.

Deploying Blockchain Using hyper ledger cello.

## **Module\_6**

Deploying Hyperledger Fabric with AWS Blockchain Templates\_

Introducing Hyperledger Fabric.

Using AWS Blockchain Templates for Hyperledger Fabric.

Building an Application for the Hyperledger Fabric network.

## **Module\_7**

Surveying Blockchain Technologies for Enterprise\_

Introducing Blockchain Improving Supply chain Food Safety.

Surveying Enterprise Blockchain Use cases.

Surveying Enterprise Blockchain Tools.

## **Module\_8**

Blockchain Principal & Practice\_

Understanding Cryptographic principles used with Blockchain.

Storing Transactions in Blocks.

Applying Proof of Work.

Maintaining Consensus.

## **Module\_9**

Building an Enterprise Private Blockchain in Salesforce\_

Understanding Blockchain and its role in the Enterprise.

Exploring Private Blockchain Application on Salesforce.

Building the Blockchain.

Anticipating the Future.

## **Module\_10**

Introduction to Bitcoin & Decentralized Technology\_

Big Ideas and Basic Use Demos

How Bitcoin works under the hood

Advanced & Upcoming Bitcoin

Decentralized Application beyond Bitcoin.

## **Module\_11**

IOTA Fundamentals

Introduction

The Basic of IOTA

IOTA Deep dive

IOTA Application Programming Interface

Creating a fully Functional IOTA app

## **Target Audience**

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

Speaker profile (Instructor )

**Mr.Ajinkya I ( CTO & Founder of Ditto security innovation)**

**Ajinkya is a paid security security consultant , Blockchain Expert , cyber security Researcher , Entrepreneur, public Speaker and Author**

**He does consulting for fortune 500 companies and law enforcements, performs penetration testing services for the world's largest companies and teaches Social Engineering classes to dozen's of Companies and Goverment agencies. He has also assisted law enforcements in india, Bangladesh & Sri lanka since 2015 on Cybercrime cases.**

**Ajinkya has given keynotes and presentations at a number of conferences around the world. Alongside conducting 1000+ Workshops and being an inspiring JOSH talk speaker , he has also delivered talks at data security events.**