



## Blockchain for Beginners

### Description:

Blockchain course is designed to provide an in depth knowledge on various aspects & concepts of blockchain. A step by step learning will be help to focus on each & every parameter of Blockchain. This course will take you into a deep dive into the state of the art blockchain technology and how to create our own mini blockchain using JavaScript. Moreover, this is a project-ready course which will help you take whatever you learn and apply it into a real-world portfolio-ready app, which you can showcase to the world.

### Start Date:

### Doubt Clear Time:

### Course Time:

### Features:

# Online classes

- # Doubt Clearing
- # Live-Class Recording
- # Real-time Project
- # Assignment in all modules
- # Quiz in every module
- # Career Counselling
- # Completion Certificate

### **What we learn:**

- # Origin of Blockchain
- # Review of Blockchain
- # Blockchain Primitives
- # Security and Privacy Mechanisms
- # Ethereum Basics
- # Capstone Project

### **Requirements:**

- # A computer/laptop
- # Good internet connection
- # Beginner Level knowledge of JS and NodeJs
- # Your dedication

### **Instructor:**

#### **Name:**

Sanjeevan Thorat

#### **Description:**

Data Scientist and Blockchain developer, with experience in

developing and managing end to end solutions. I have hands-on experience in Python Programming Language, Machine Learning Deep Learning and Natural language processing. Blockchain development experience in smart contracts, Decentralised Finance applications, DAOs, NFTs and Oracles running on Ethereum and Polygon blockchains. I have worked with various clients for different industry projects in the blockchain space. I specialize in building smart contracts on the Ethereum blockchain along with JavaScript integration for enhancing user experience to generate maximum returns on investment.

### **>Blockchain Fundamentals:**

- >>History of Blockchain technology
- >>Web 1.0 vs Web 2.0 vs Web 3.0
- >>Blockchain uses and applications
- >>Complete blockchain demo
- >>Bitcoin whitepaper
- >>Distributed systems
- >>Byzantine's generals problems
- >>Consensus mechanism, proof of work, proof of stake
- >>Difficulty and mining
- >>Staking and sharding
- >>CPUs vs GPUs vs Asic miners

## **>Ethereum and EVM:**

- >>Ethereum whitepaper
- >>Introduction to smart contracts
- >>Ether and gas
- >>Ethereum nodes
- >>Ethereum accounts, transactions and blocks
- >>Smart contract anatomy
- >>Ethereum Virtual Machine(EVM)
- >>Details of an Ethereum transaction
- >>Byte code
- >>Application Binary Interface(ABI)
- >>Contract storage in blockchain

## **>Smart Contracts:**

- >>Lifecycle of a smart contract
- >>Decentralised Applications(Dapps)
- >>Decentralised Autonomous Organisations(DAOs)
- >>Decentralised Finance(DeFi)
- >>Oracles-Chainlink
- >>Non Fungible Tokens(NFTs)

## **>Solidity fundamentals:**

- >>Remix IDE components

>>Data types

>>Comments

>>Storage locations

>>Memory locations

>>Literals

>>Arrays

>>Addresses

>>Mappings

>>State variables

>>Structure definitions

>>Modifiers

>>Functions

**>Blockchain project:**

>>Build a full stack decentralized app on Ethereum blockchain