

# Blockchain Foundations

**Description:**

Presenting the blockchain community session where students will learn the fundamentals of Blockchain Technology along with Solidity programming fundamentals with hands-on practical problems. Learners will learn to build their own cryptocurrency after completion of this community session

**Instructors:**

Sanjeevan Thorat

**Duration:****Language:**

English

**Price:**

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**Requirements:**

System with Internet Connection, Interest to learn, Dedication

**Features:**

Course material, Course resources, On demand recorded videos, Practical exercises, Quizzes, Assignments, Course completion certificate

**Learn:**

Introduction to blockchain, Ethereum and Solidity, Solidity, Create your Cryptocurrency Project

**Curriculum:**

- Introduction to blockchain:
  - What is Blockchain
  - History of Blockchain
  - Bitcoin Blockchain in depth
- Ethereum and Solidity:
  - History Ethereum Blockchain
  - Ethereum Blockchain in depth
  - Creating a blockchain from scratch in Javascript
- Solidity:
  - What is Solidity
  - Solidity basics
  - Smart contract fundamentals
  - Payable functions
  - Fallback functions
  - View functions
  - Pure functions
  - Function overloading
  - Function overriding
  - Solidity Events
  - Block and Transaction details
  - Solidity Inheritance
    - Single Inheritance
    - Multiple Inheritance
    - Heirarchical Inheritance
    - Multilevel Inheritance
  - Abstract Contracts

- Solidity Interfaces
- Solidity Libraries
- Project:
  - Creating a cryptocurrency with ICO in Solidity from scratch