Block chain technology

Description:

Block Chain is a leading software platform for digital assets. It is a data structure used to create a decentralized ledger and is composed of blocks in a serialized manner. A block contains a set of transactions ,a hash of the previous block ,timestamp ,block reward ,block number ,and so on . Every block chain contains a hash of the previous block, thus creating a chain of blocks linked with each other. Every node in the network holds a copy of block chain technology. This technology is used in various real-time applications . Few other real time applications include digital identity ,smart contracts ,digital voting, and IoT applications .

DAY 1

1. Theoretical Foundations of Bitcoin & Blockchain
2. Innovative use cases which leverage Blockchain
3. Architectures for Blockchain and Data Structures for Blockchain
4. Ethereum
5. Smart Contracts
6. Consensus Algorithms,new proof-of-work/stake etc.
7. Hyperledger
8. Solidity Programming

DAY 2

1. Blockchain Privacy: Attacks and Solutions
2. Cryptography with Blockchain
3. Hash Functions
4. Signatures used in Blockchain
5. Anonymization Techniques used in Blockchain
6. Bitcoin Mining Protocols
7. Blockchain + AI / IoT

WORKSHOP HIGHLIGHTS

- Fundamentals of Blockchain – Technology, Characteristics and Implications
- Overview on Blockchain Use Cases
- Use Case Identification and Development
- Basics of Smart Contract Programming
- Future Potential and Challenges of Blockchain