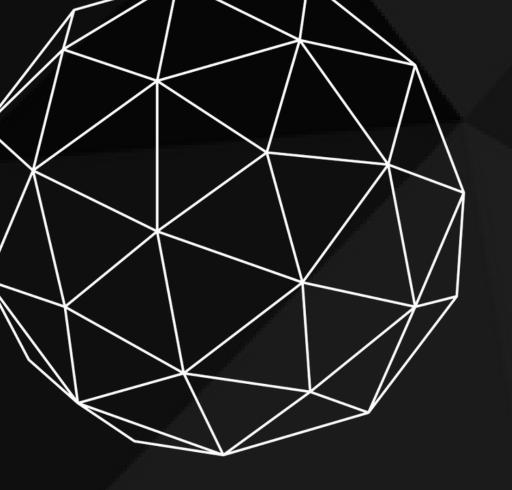
Government Polytechnic Nashik

(An Autonomous Institute of Government of Maharashtra State)







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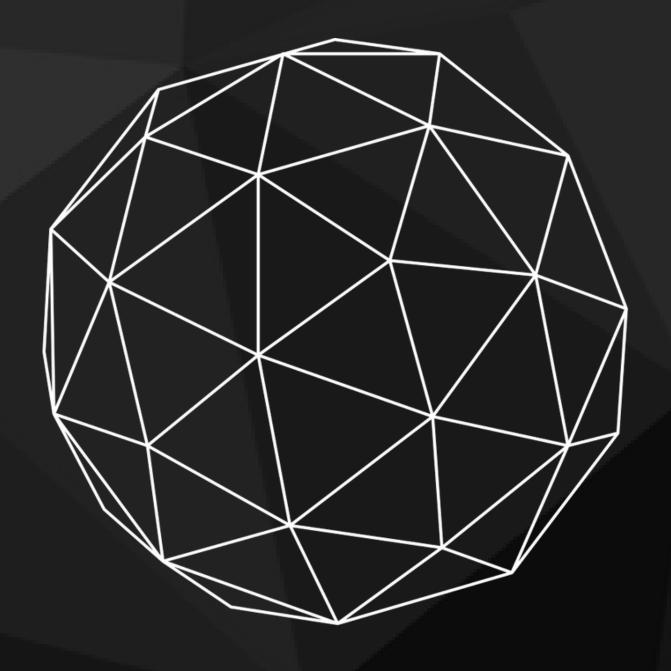
An Academically Autonomous Institute of Govt.of Maharashtra

Seminar Topic:

BLOCK CHAIN Tech & Dev

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Overview

- Introduction
- History.
- Smart Contract
- What is Blockchain Development
- Types of Blockchain Developer
- Tools & Technology used to Develop a Blockchain
- Application of Blockchain Technology.
- Benefits of Blockchain.
- Challenges of Blockchain Technology.
- Some Famous Blockchain Platforms

What is Blockchain Technology?

A blockchain is a distributed database or ledger that is shared among the nodes of a computer network. As a database, a blockchain stores information electronically in digital format.

Blockchains are best known for their crucial role in cryptocurrency systems, such as Bitcoin, for maintaining a secure and decentralized record of transactions. The innovation with a blockchain is that it guarantees the fidelity and security of a record of data and generates trust without the need for a trusted third party.



History

Nakamoto Developed bitcoin and introduced the notion of blockchain to use decentralised and distributed Ledger

2009

Blockchain has
Emerged in various
applications with
Further
development.

2012-13

1990s

The Concept of distributed computing has been around Since 1990.

2011-12

The deployment of cryptocurrency in Practical Application related to cash.

2017-18

Significantly faster speeds with lower requirements to support IoT devices

Smart Contract

With The help of Blockchain Technology its is possible that A Contract is computer program that directly and automatically controls the transfer of digital assets between the parties that involves in the contract. It eliminates the need if trusted third party. The blockchain technology lowering the necessity of institutions to provide risk modification and trust service.





What is Blockchain Development?

Blockchain development is a broad category of computer science focused on creating, applying, and optimizing blockchain technology.

Blockchain development can range from stock trading to accounting, insurance to supply chain management, smart contracts to business models, and so much more.



Types of Block chain developers

Appliction developer

- Solidity

- JavaScript

- Python

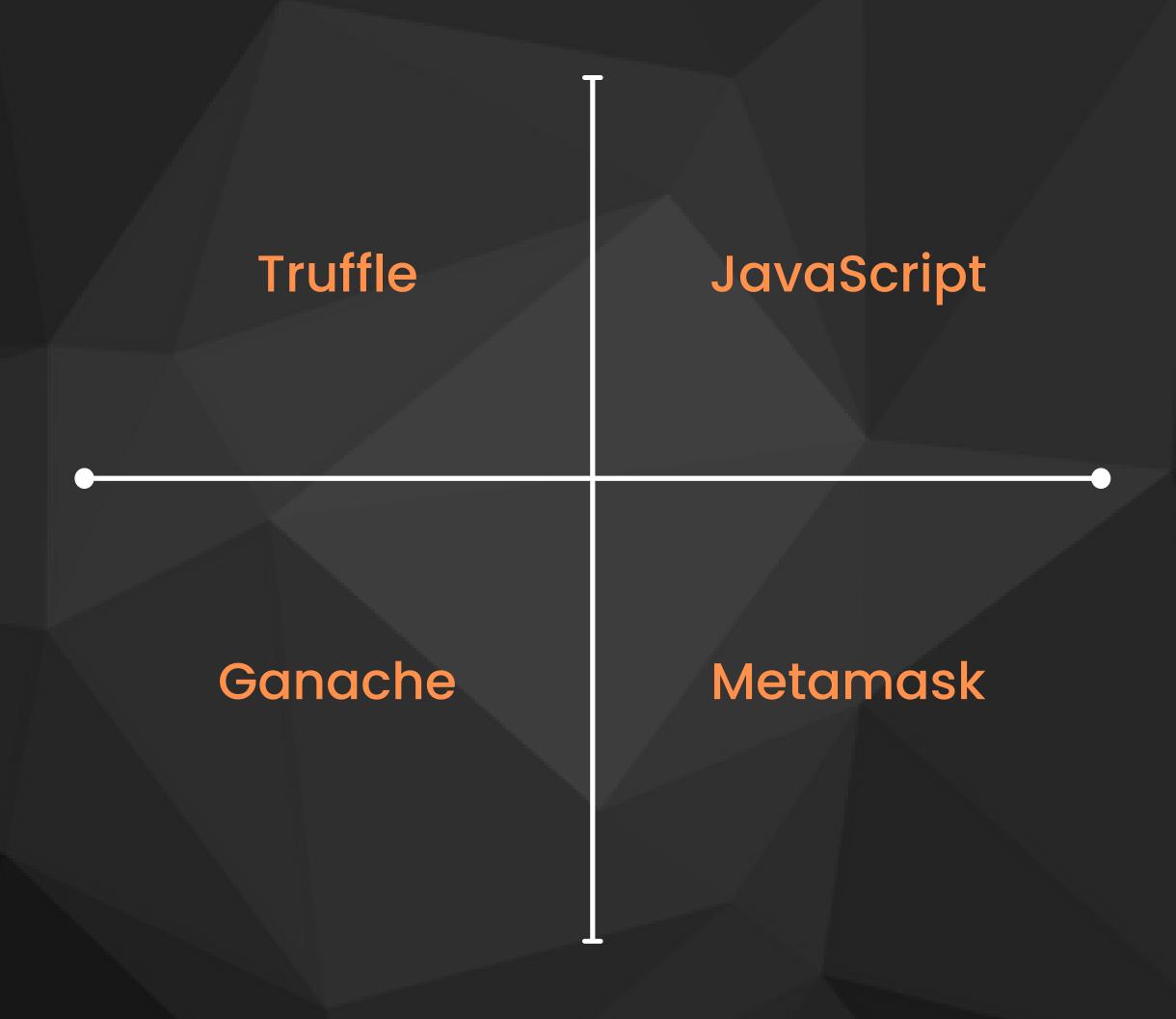
Core developer

- GO

- C++

- Rust

Tools & Tech to Develop Block chain



Benefits of Blockchain





Reduced Transaction Cost.



Fast Transaction Settlements



Security



Worldwide adoption



Automated Operation



Flexible



Distributed Architecture

Applications of Block chain Technology



Bitcoin

The idea of a blockchain was first conceived as the mechanism supporting Bitcoin.



Money Transfer
Service

Money transfers using blockchain can be less expensive and faster than using existing money transfer services.



NFT

NFTs, is a digital art putting an NFT on the blockchain guarantees that only a single copy of a piece of digital art exists.



AI

AI BlockChain is a digital ledger that employs intelligent digital agents to govern the chain.

Challenges of Blockchain Technology

In some countries, the use of blockchain technology applications is banned like cryptocurrency due to some environmental issues. Blockchain databases are stored on all the nodes of the network creates an issue with the storage, increasing number of transactions will require more storage.

Some Famous Blockchain Platforms

- IBM Blockchain
- Ethereum
- Steller
- Solana



Thank You