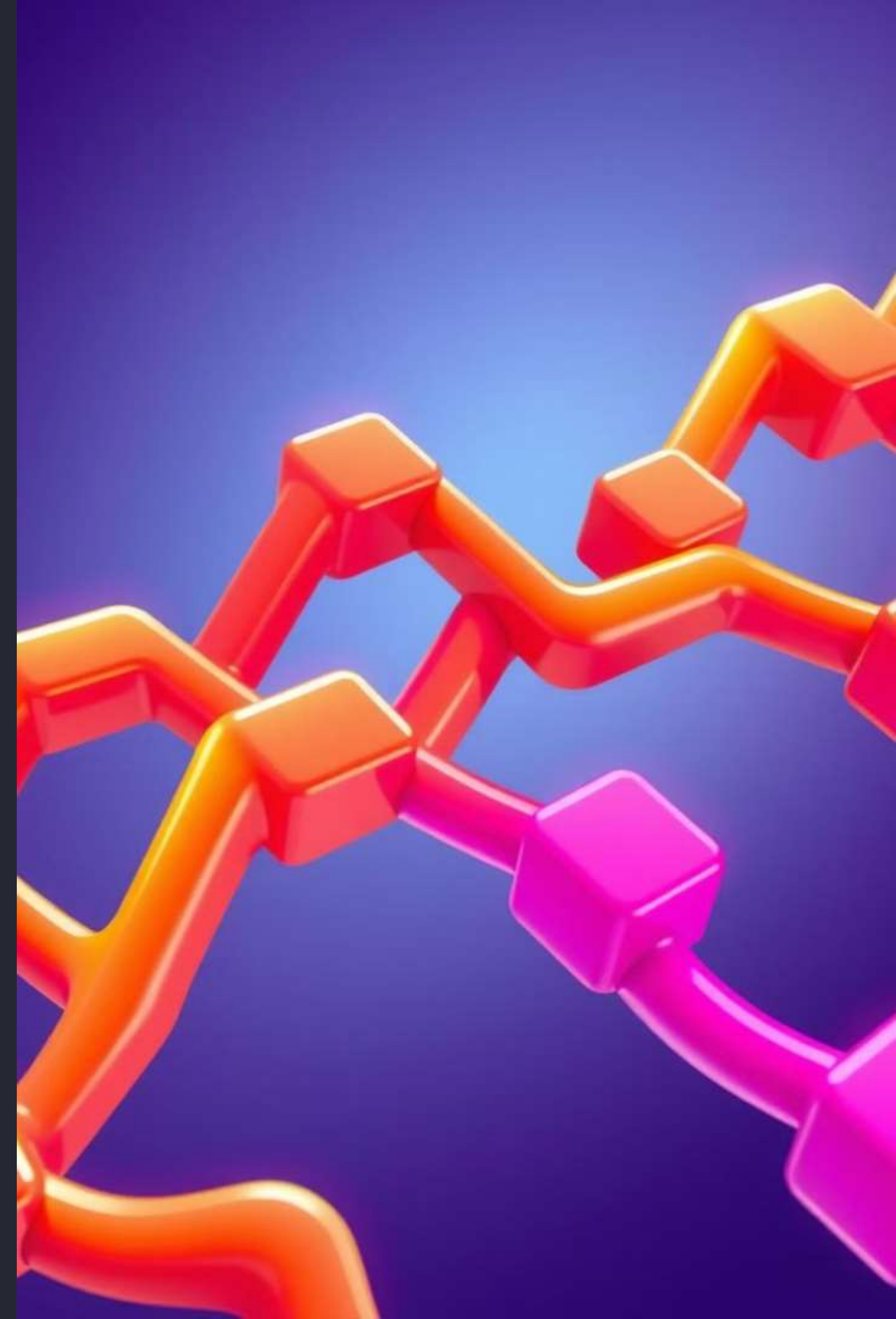


UNIT 4: BLOCKCHAIN

Welcome to our deep dive into the fascinating world of blockchain. This unit explores the fundamental concepts, history, and applications of this groundbreaking technology. We will delve into its key aspects, including its origins, evolution, benefits, and challenges.

 **Dr. Maharajan K**



Guess the Topic: Visual Introduction

Hint 1

A distributed ledger technology

Hint 2

Revolutionizing finance, security, and supply chains

Hint 3

Often associated with cryptocurrencies

What is Blockchain?



Digital Ledger

A decentralized, shared, and immutable record of transactions.

Cryptography

Utilizes cryptographic techniques to secure data and transactions.

Decentralized

No single entity controls the network, promoting transparency and trust.

Origins of Blockchain: Bitcoin and Cryptocurrency

1 Satoshi Nakamoto

The anonymous creator of Bitcoin, the first cryptocurrency to implement blockchain.

2 Bitcoin's Genesis

2008 - Bitcoin white paper outlined a decentralized digital currency based on blockchain technology.

3 Cryptocurrency Revolution

Bitcoin's success sparked a wave of other cryptocurrencies and blockchain applications.



Evolution of Blockchain: Key Milestones



The Blockchain Timeline

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Real-World Blockchain Applications



Supply Chain

Enhanced transparency and traceability.



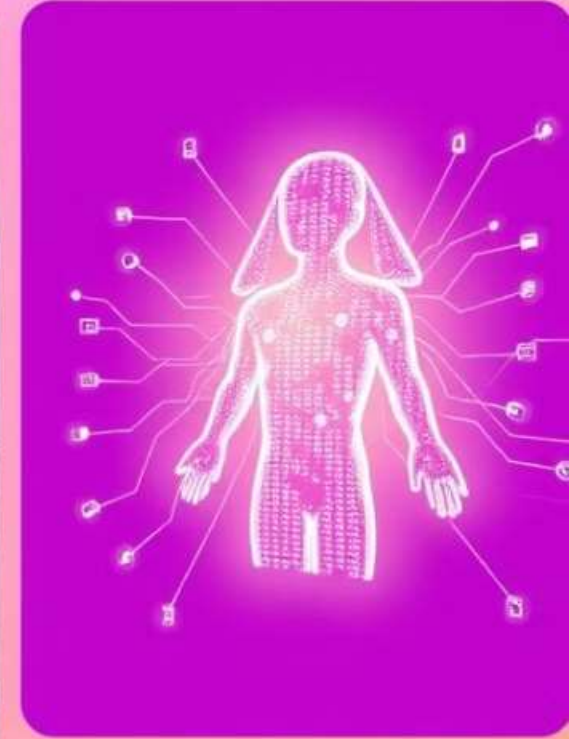
Digital Identity

Secure and verifiable digital identities.

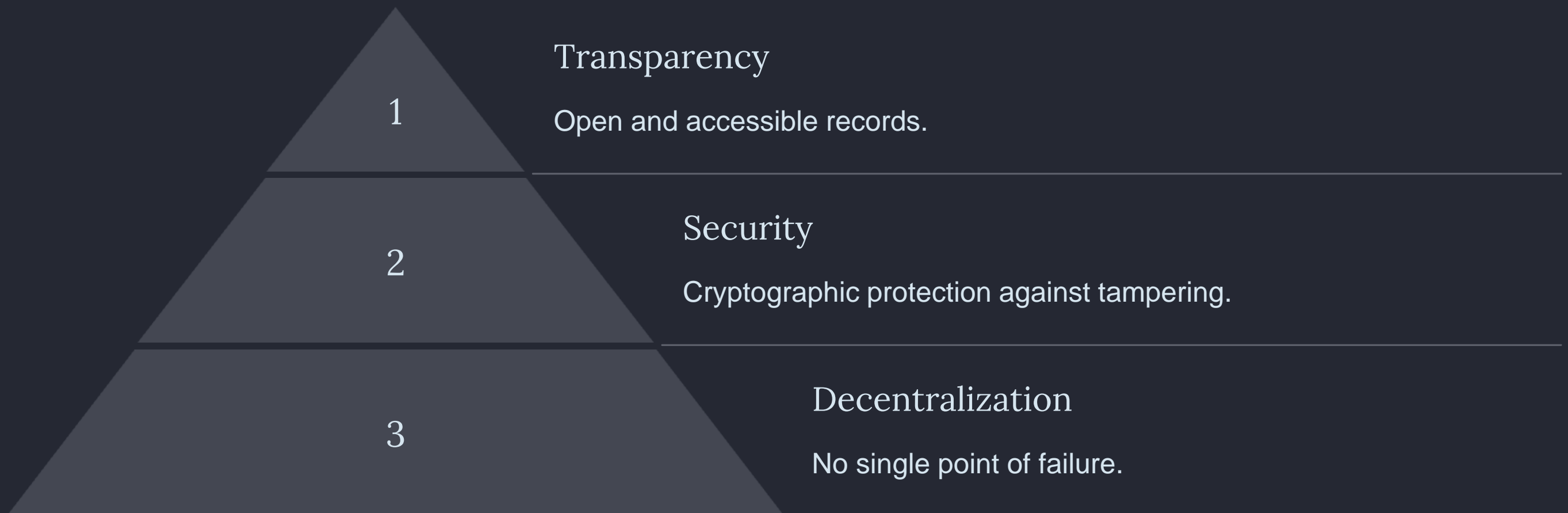


Healthcare

Secure and efficient patient data management.



Blockchain Benefits



Blockchain Challenges

1

Scalability

Handling large transaction volumes.

2

Adoption

Wide-spread acceptance and integration.

3

Regulation

Clear and consistent legal frameworks.

Blockchain Learning Assessment

1

What is a blockchain?

A decentralized ledger.

2

What is Bitcoin?

The first cryptocurrency.

3

What is a smart contract?

Self-executing agreements.

4

What is Ethereum?

A blockchain platform.



Summary

Blockchain technology is revolutionizing industries worldwide. As you learn more about this transformative technology, you will be able to see its potential to reshape finance, supply chains, and many other aspects of our lives.

