



Department Vision

To be a center for academic excellence in the field of Computer Science and Engineering education to enable graduates to be ethical and competent professionals.

Department Mission

To enable students to develop logic and problem solving approach that will help build their careers in the innovative field of computing and provide creative solutions for the benefit of society.

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Web3 continues to evolve rapidly, influencing various sectors and introducing new decentralized capabilities. Here are some of the most recent trends in Web3:

1. Tokenization of Real-World Assets (RWA)

There is a significant trend in representing physical assets, such as real estate, commodities, and art, as digital tokens on a blockchain. This process is making traditionally illiquid assets more accessible and easily tradable in the digital economy. The tokenization of real-world assets is expected to merge physical and digital asset classes to an unprecedented level.

2. Rise of Decentralized Identity (DID)

A major focus in Web3 is the development of decentralized identity solutions that give users greater control over their personal data. These frameworks allow individuals to manage their own digital identities securely, sharing only necessary information for verification without relying on a central authority. Technologies like Zero-Knowledge proofs are facilitating this by enabling proof sharing without revealing the underlying sensitive data.

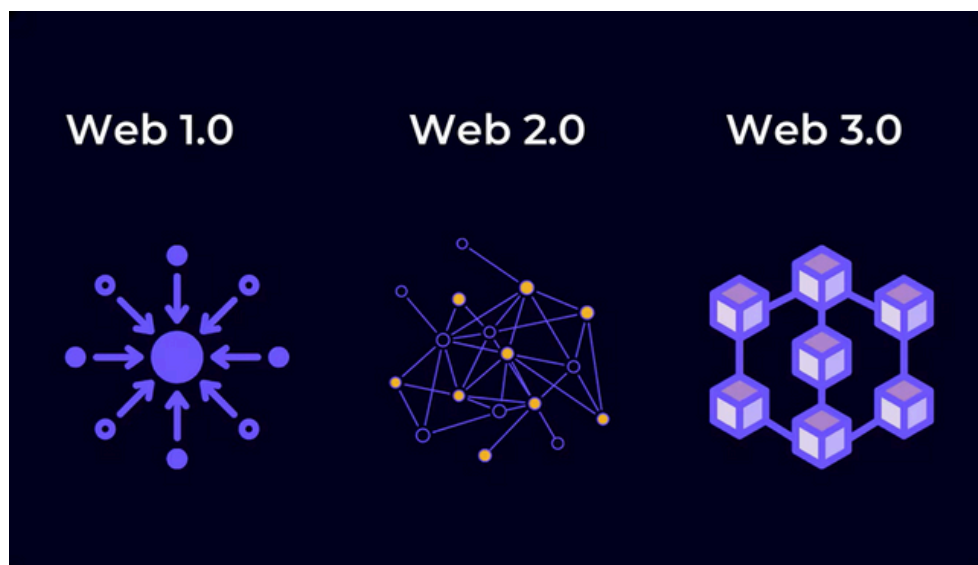
3. Integration of AI with Web3

The convergence of Artificial Intelligence and Web3 is a key area of innovation. This trend includes the development of decentralized AI networks, where AI models are trained and deployed on decentralized systems, democratizing access to AI technology. Additionally, AI is being used to create "smarter" smart contracts that are more adaptable and automated.



4. Focus on Cross-Chain Inter-operability

As the number of distinct blockchain networks grows, ensuring they can communicate and transfer assets seamlessly has become crucial. Cross-chain ecosystems and protocols are being developed to improve inter-operability, allowing for smoother asset transfers and broader collaboration between different blockchain platforms. This addresses the challenge of isolated blockchain networks and enhances the overall user experience.



5. Increased Adoption in Professional and Enterprise Workflows

Web3 technologies are seeing growing adoption across various professional sectors. In finance, Decentralized Finance (DeFi) offers alternatives to traditional banking for lending and borrowing. Supply chain management uses blockchain for transparent tracking of goods, while the healthcare industry is exploring Web3 for secure, patient-centric data management. This adoption by major companies and industries signals a move towards integrating decentralized solutions into mainstream business operations.