

Cryptography and Network Security

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Abstract: *Network Security ensures the safe transmission of data by preventing unauthorized access. It protects both private and public networks, commonly used by organizations, governments, and businesses. Cryptography plays a key role in this by encoding data so only the intended recipient can read it, using techniques like hash functions. This technology, once limited to military and national security, is now widely used in modern communication to secure data and prevent cyberattacks, making it crucial for e-commerce and other applications.*

Keywords: Network Security, Data Transmission, Cryptography, Hash functions, Cybersecurity