IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 2, Issue 5, January 2022

Unveiling the Secrets: Exploring Modern Cryptography Techniques

Prof. Karishma Tiwari and Sarmela Jeyamurugan Nadar

Asst. Professor and Research Scholar St. Rock's College of Commerce and Science, Borivali (W), Mumbai, India

Abstract: Cryptography is the science and practice of securing communications and information by converting it into an unreadable form known as cipher text using various mathematical algorithms and techniques. The purpose of encryption is to protect the confidentiality, integrity and authenticity of the data and to ensure that only authorized persons have access to the data. Cryptography is used in many applications, including secure internet communications (such as HTTPS), data protection during storage and transit, authentication mechanisms, secure financial transactions, and protecting sensitive government and military information. It plays a critical role in today's cybersecurity and privacy, helping individuals, organizations and governments protect their digital assets and communications from malicious actors.

Keywords: Cryptosystem, Cryptographic, Symmetric, Cryptography, Digital

