

## Profile

### Dr. Gurunath R.

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Dr. Gurunath R. is a dedicated researcher with a strong focus on cutting-edge technologies that intersect security, data privacy, and emerging trends in artificial intelligence. His research interests span across various domains, including Steganography using AI, Fully Homomorphic Encryption (FHE), Cryptographic Protocols and their Applications, Blockchain-based Steganography, IoT and Smart Agriculture Security, Social Media, and E-learning. Dr. Gurunath's work addresses the challenges of modern data security, particularly in the areas of steganography and cryptography.

Dr. Gurunath has published extensively in high-impact international journals, showcasing innovative approaches to data security and steganography. His notable works include a 2023 publication on a 3-bit hiding covert channel algorithm for public and medical data security using format-based text steganography in the *Journal of Database Management*, as well as contributions to *IEEE Access*, covering topics such as linguistic steganography using artificial neural networks and the role of social media in steganography. Additionally, his research on artificial neural network techniques applied to steganography has been featured in the *Journal of Physics: Conference Series*.

In addition to journal articles, Dr. Gurunath has contributed to international conferences with work on business analytics for smart education systems and security issues in IoT networks. His presentations have furthered the understanding of critical issues in digital security and smart technologies.

Dr. Gurunath has also authored several book chapters, including his 2022 work in "Cyber Security and Network Security," which provides insights into deep steganography and automation trends. His earlier chapters explore advancements in text steganography and the essentials of abstracting and indexing for research papers.

Looking ahead, Dr. Gurunath's 2024 contributions, accepted and to be published by Elsevier, include a comprehensive literature review on homomorphic encryption and case studies focusing on modern data security solutions for IoT. Through his research, Dr. Gurunath continues to contribute valuable insights to the academic and professional communities, addressing both current challenges and future directions in the field of data security.