

PROFILE

Name	Rakesh V S
Position & Affiliation	Assistant Professor, Department of CSE
Areas of Interest	Theory of Computation, Compiler Design, Network Security, Cyber Security
Email	rakesh.cse@cambridge.edu.in
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Vidwan ID	566074
Scopus ID	59046028500
Professional web page (if any)	NA

Educational Qualifications:

Ph. D	VTU	India	Pursuing, Completed CV
MTech	MVJ College of Engineering, VTU	India	2013
BE	East Point College of Engineering & Technology, VTU.	India	2011

Areas of Research:

Network Security, Cyber Security

Brief Profile: (write about yourself)

With a decade of teaching experience, Rakesh V S holds a B.E. and an M.Tech. in Computer Science and Engineering from Visvesvaraya Technological University, Belagavi, Karnataka. A qualified KSET scholar, he has published one research paper in international journals and presented five papers at national conferences, earning best paper awards at various international conferences. His innovative contributions include five published patents. His interests span Networking, Data Mining, Automata Theory, Compiler Design, and Cyber Security. Currently guiding three batches of students in the field of Network Security and Cyber Security. He is a life member of the ISTE and I2OR. Associated with CiTech from July 2014 onwards.

Awards/Achievements/Others:

1. KSET Qualified in 2021.
2. Completed “Post Graduate Program in Cyber Security” offered by Great Lakes Executive

Learning through Great Learning.

3. Best Paper Award for the paper entitled, *A Survey on Cyber Security: Attacks Concept and Techniques*, presented at the International Conference on Emerging Research in Computing.
4. Selected as a member of VTU Technical Dictionary Committee for Dept. of CSE.
5. Selected to prepare MCQs for a few subjects for MOOC courses offered by VTU as part of Online Distance Education.
6. Selected as a Faculty Member for courses offered by VTU as part of Online Distance Education.

Courses Taught:

Automata Theory & Compiler Design (ATCD), Cloud Computing, Data Mining and Data Warehousing, Discrete Mathematical Structures, Operating Systems, Cryptography, Information Network Security, Embedded Computing Systems, Operation Research, Analysis and Design of Algorithms, Mobile Computing & Wireless Networks.

Publications/Patents:

Publications	1. Evaluation of Supervised Classification Approach for DDoS Threat Detection in Software Defined Networks, <i>International Journal on Information Technologies and Security</i>, vol.16, no.4, 2024, pp. 95 - 103. https://doi.org/10.59035/GGKS3941 (WoS). Conferences: 1. Enhancing Network Security: A Novel Hybrid ML Approach for DDoS Attack Detection in SDN, 2nd International Conference on Artificial Intelligence and Data Science, Hinweis Research, October 28, 2023. (Scopus Indexed) 2. Relational Model and Improvised DSR Assisted Framework for Secure Wireless Communication, 4th International Conference on Computing Science, Communication and Security, Ganapath University, Gujarat on February 6 - 7, 2022. (Scopus Indexed) 3. SAS: Secured Authentication Scheme for Network Security in Multi-Server and Distributed Environment, 2nd Edition of Mysore Subsection Flagship International Conference, JSS Science and Technology University on October 16 - 17, 2022. (Scopus Indexed) 4. Vulnerabilities, Malware and DoS Attacks: A Survey, International Conference on Recent Advances in Computer Science and Information Technology, World Research Forum for Engineers & Researchers, Ernakulam, Kerala on February 11, 2022. 5. A Survey on Cyber Security: Attacks Concept and Techniques, International Conference on Emerging Research in Computing, Annamacharya PG College of Computer Studies, Andhra Pradesh on June 30, 2021. (Best Paper Award)
Patents	1. Design Patent: A Wall Climbing Robot, 355535-001, Cbr Date: 26/12/2021.

	- Smart Renewable Energy Management for future Smart cities using AI and IoT, 202241068666A, 02/12/2022. - IoT Enabled Smart Cloth Dryer Stand, 202341000616A, 13/01/2023. - Artificial Intelligence Based Road Accident Detection Device, 6371526, UK Design Patent, 20/06/2024. - Smart Food Habits Analyzing Badge, 419102-001, 05/06/2024
Book/Book Chapters	Authored Book: <i>Network Security: Cyber Law, Cyber Security</i>, ISBN: 978-93-5625-417-6, Scientific International Publishing House, First Edition: 2022. (Co-Author) <i>Information Security</i>, ISBN: 978-93-5625-427-5, Scientific International Publishing House, First Edition: 2022. (Co-Author) Book Chapters: - Chapter Name: Hybrid Algorithms for Cryptography Enhancing Security through Quantum Computing Book name: Hybrid Algorithms for Quantum Computing and Artificial Intelligence. ISBN: 9788197933646; RADemics Research Institute. - Chapter Name: Foundations of Image Processing Understanding Pixels Color Models and Image Formats Book Name: Image Processing Techniques and its Applications in Computer Vision and Artificial Intelligence ISBN: 9788197933660; RADemics Research Institute. - Chapter Name: Implementing Machine Learning Algorithms for Autonomous System Intelligence Book Name: Python Programming Strategies for Deploying Artificial Intelligence in Autonomous Systems ISBN: 9788197282140; RADemics Research Institute.
Research and Consultancy: NA	