

**Dr. Manoov R**  
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## Professional Summary

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Dr. Manoov R is a Senior Assistant Professor at the Vellore Institute of Technology (VIT), in Internet of Things (IoT) department of the School of Computer Science and Engineering. He possesses extensive experience in computer science and related technologies, including Machine Learning, Bioinformatics, Data Mining, and Computational Biology. Dr. Manoov is passionate about teaching and integrates practical applications with theoretical concepts to provide students with hands-on experience. He is also skilled in Moodle administration and Git/Docker for development workflows. Beyond academia, Dr. Manoov is committed to social responsibility, having undertaken pro bono consultancy work for NGOs.

### Education

- **Doctor of Philosophy (PhD):** Thesis Title: Computational Approaches for identifying Micro-RNA Biomarkers in Neoplasms and Drug Resistance.
- **Master of Technology (MTech):** Thesis Title: "Content based Image Retrieval"
- **Bachelor of Engineering (BE):** Thesis Title: "Image enhancement techniques and filter mechanisms"

### Professional Experience

- **Senior Assistant Professor, VIT (May 2012 - Present)**
  - Teaching and research in Computer Science and Engineering.
  - Administered Moodle, focusing on user authentication and course enrollment.
  - Maintained 'Teaching with Moodle' resources.
- **Assistant Professor, Velammal Engineering College (June 2010 - May 2012)**
  - Delivered lectures and trained in entrepreneurship via the National Entrepreneurship Network.

### Skills

- Programming: Proficient in R (70%).
- Statistical Analysis: Skilled in Statistics (60%).
- Learning Management Systems: Expertise in Moodle LMS (70%).

### Projects

- **Electronic Data Capture and Clinical Research Data Analytics (2023-24):** Provided pro bono consultancy services.

## Publications

- Vishwakarma, S., Premjit, J. P., Balakrishnan, S., & Manoov, R. (2023, September). Qiskit Simulation of CNOT Equivalent Circuits. In 2023 International Conference on Quantum Technologies, Communications, Computing, Hardware and Embedded Systems Security (iQ-CCHES) (pp. 1-6). IEEE.
- Rajapandy, Manoov, & Anbarasu, A. (2021). An improved unsupervised learning approach for potential human microRNA–disease association inference using cluster knowledge. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 10, 1-16.
- Jain, H., Yadav, G., & Manoov, R. (2020). Churn prediction and retention in banking, telecom and IT sectors using machine learning techniques. In *Advances in Machine Learning and Computational Intelligence: Proceedings of ICMLCI 2019* (pp. 137-156). Singapore: Springer Singapore.
- Chincholkar, S., & Rajapandy, Manoov. (2020). Fog image classification and visibility detection using CNN. In *Intelligent Computing, Information and Control Systems: ICICCS 2019* (pp. 249-257). Springer International Publishing.
- Goyal, R., Manoov, R., Sevugan, P., & Swarnalatha, P. (2020). Securing the data in cloud environment using parallel and multistage security mechanism. In *Soft Computing for Problem Solving: SocProS 2018, Volume 2* (pp. 941-949). Springer Singapore.
- Sreekant, A., P. S., G, G., & Rajapandy, Manoov. (2019). Necessity of Machine Learning and Data Visualization Principles in Marketing Investment Management. *International Journal of Innovative Technology and Exploring Engineering*, 8(6S4).
- M, Thanusha., & R, Manoov. (2018). Secure and Cost Effective User Revocation Mechanism for Data Analysis in the Cloud, 9(4), 442–449.
- Khandelwal, D., & Manoov, R. (2017, November). Airbag ECU coupled vehicle accident SMS alert system. In 2017 International Conference on Inventive Computing and Informatics (ICICI) (pp. 82-87). IEEE.

## Faculty Development Programs

- NEP 2020 Orientation Programme, IIT Madras (May 2024)
- AICTE ATAL Academy IoT Training, Mizoram University (February 2021)
- AICTE ATAL Academy Blockchain Training, NIT and Bangalore Institute of Technology (2020)

## Volunteer and Leadership Roles

- Organized a National Workshop on Software Quality Engineering (2009).
- Led faculty development workshops on Moodle usage and blockchain technologies.