



Dr. Mohammed Salman M

Assistant Professor

Department of Mathematics

School of Engineering

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1. ABOUT

Dr. Mohammed Salman M is an Assistant Professor at Dayananda Sagar University with expertise in Artificial Intelligence, Machine Learning, Data Analytics, Mathematical Modelling, Computational Biology, and Applied Statistics. He has over five years of experience in higher education, combining excellence in teaching with interdisciplinary research.

Prior to joining Dayananda Sagar University, he served as an Assistant Professor Contract at Vellore Institute of Technology (VIT), where he taught undergraduate and postgraduate courses in Mathematics, Statistics, Big Data Analytics, MATLAB, R Programming, and Hadoop. His research focuses on integrating mathematical modelling and deep learning techniques to solve challenging problems in healthcare, particularly brain tumour diagnosis and infectious disease prediction. His work has been published in prestigious journals.

2. RESEARCH INTERESTS

- Mathematical Modelling
- Computational Biology
- Deep Learning
- Data Science and Analytics
- Medical Image Analysis
- Disease Prediction

3. ACADEMIC QUALIFICATIONS

- Ph.D. in Mathematical Biology — Vellore Institute Technology (VIT Vellore), 2026
- M.Sc. Mathematics — Thiruvalluvar University, 2019
- B.Sc. Mathematics — Thiruvalluvar University, 2017

4. PROFESSIONAL EXPERIENCE

- Assistant Professor — Dayananda Sagar University, 10 Months
- Assistant Professor Contract — Vellore Institute of Technology, 16 Months
- Teaching cum Research Assistant — Vellore Institute of Technology, 36 Months

5. RESEARCH HIGHLIGHTS

- Publications: 6
- Academic/Conference Roles: Participated as presenter in various national and international conferences.
- Reviewer/Editorial Activities: Active reviewer in various IEEE and Elsevier publishing Journals. Associate Editor in Applied and Computational Mathematics, Science publishing group.

6. SELECTED PUBLICATIONS

1. M Salman, PK Das, SK Mohanty, "A systematic review on recent advancements in deep learning and mathematical modeling for efficient detection of glioblastoma," IEEE Transactions on Instrumentation and Measurement, 73, 1-34, 2024.
2. M Salman, SK Mohanty, "Data-driven neural differential equation model and stochastic dynamics for glioma prediction", IEEE Access, 13, 145211-145222, 2025.
3. S Dolui, M Salman, "A neural network framework for modeling the dynamics of the Landau–Lifshitz–Gilbert equation" Engineering Applications of Artificial Intelligence, 181, 2026.
4. M Salman, PK Das, SK Mohanty, "An integrated framework for infectious disease control using mathematical modeling and deep learning", IEEE Open Journal of Engineering in Medicine and Biology 6, 41-53, 2024.
5. M Salman, P Sahoo, A Mohapatra, SK Mohanty, L Rong, "An infectious disease epidemic model with migration and stochastic transmission in deterministic and stochastic environments", Healthcare Analytics, 5, 2023.

View Full Publication List – <https://sites.google.com/view/drmohammedsalmanm/publications?authuser=0>

7. ACADEMIC PROFILES

- Google Scholar: <https://scholar.google.com/citations?user=uJsRiNAAAAAJhl=en>
- ORCID: <https://orcid.org/0009-0007-6078-7502>
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=58645153700>
- ResearchGate: <https://www.researchgate.net/profile/Mohammed-Salman-M>
- Web of Science: <https://www.webofscience.com/wos/author/record/KBC-6055-2024>
- Personal/Professional Website: <https://sites.google.com/view/drmohammedsalmanm/home>

8. CONTACT

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