

Faculty Profile

Brief Profile

Faculty Photo

I am working as an Associate Professor in the Department of Information Science at RV College of Engineering. I have with over 17 years of experience in academia and research. I hold a Ph.D. in Machine Learning and M.Tech in Computer Science. Throughout my career, I have authored more than 50 research papers, many of which have been published in reputable international journals and conferences.

I have also made actively contributions to the academic community by delivering expert lectures at numerous Faculty Development Programs and Conferences, where she has shared insights on advanced technologies, methodologies, and trends in computer science. I have also extended my expertise to industry personnel by providing specialized training in emerging technologies, particularly in AI, Data Science, and Bioinformatics. I've been a part of collaborative work with industry leaders like Samsung and Wipro has fostered strong ties between academia and industry, ensuring that both students and professionals stay at the forefront of technological advancements. I have been teaching courses in the area of Machine Learning, Artificial Intelligence, Software Engineering, Social networks and Core programming. My research Interests include Machine Learning in Healthcare Bioinformatics & Computational Biology, Intelligent Systems & Predictive Analytics

Personal Information

- **Name:** Merin Meleet
- **Designation:** Associate Professor
- **Department:** Information Science and Engineering
- **Email:** merinmeleet@rvce.edu.in
- **Phone:** 08068188463

Google Scholar / ResearchGate / LinkedIn/ORCID: <https://orcid.org/0000-0002-1647-5559>

Domain of Expertise

Research Focus

- **Primary Area:** Machine learning, Data Mining, Clinical Natural language Processing
- **Allied Areas:**
 - Transfer Learning, Computer Vision, Computational Neuroscience
 - Biomedical Text Mining, Clinical Decision Support Systems, Predictive analytics

Academic Qualifications

- **Ph.D.:** Computer and Information Sciences, VTU, 2024

- **M.Tech:** Computer Science and Engineering, Anna University, 2011
- **B.Tech:** Information Technology , University of Calicut , 2005

Professional Experience

Experience			
S.No	Institute/College/Industry	Job Title	Duration
1.	KMCT Collge of Engineering	Assistant Professor	2005-2014
2.			

Publications & Patents

Journal Publications (Last 5 years)

- M.Meleet, Harshitha H.N, “Machine Learning and NLP based System for Medical Data Analytics and Prediction”, International Journal of Advance Research, Ideas and Innovation in Technology, Volume 7, Issue 3 - V7I3
- Pooja S.P, M.Meleet ,Medical Image Processing using 3D Slicer, International Journal of Scientific Research and Engineering Development— Volume 4 Issue 3, May -June 2021
- Sneha Vanjirel, Sreelakshmi, Merin Meleet, “Glaucoma Detection Using Deep Learning”, International Journal of Research Publication and Reviews Vol (2) Issue (8) (2021) Page 1330-1335
- Ananya KVS, Merin Meleet, A Study of Ontology Based Recommendation Systems, International Research Journal of Engineering and Technology , vol. 8, Issue 6, IRJET-V8I6576, June 2021
- Sneha Janani Shekar, AR Suraj, M.Meleet, Memory Management Schemes in High Performance Mobile Devices, Journal of Advanced Research in Dynamical and Control Systems, Special Issue 03, April 2018
- T.S.Harshitha, Merin Meleet , “A study of computing paradigms: Cloud, Edge, Multi-Access Edge Computing”, International Journal of Advance Research, Ideas and Innovation in Technology, Volume 7, Issue 3 - V7I3-1544

- Merin Meleet, T.S. Dhanalakshmi, Text Mining on Electronic Medical Record, International Journal of Creative Research Thoughts, Volume 8, Issue 5 May 2020
- Swapnil Roy, Sunny Khatri, M.Meleet, Fake News Detection in Political Artefacts, International Research Journal of Engineering and Technology, Volume 7, Issue 4, April 2020
- Arnab Jana, Merin Meleet, Study on Performance Tuning of Web Applications using Ad-Hoc Techniques International Research Journal of Engineering and Technology , Volume 7, Issue 5, May 2020
- Chinmay Naik, Harikrishna V Holla ,M.Meleet, "Motorcycle Traffic Rule Violation Detection and Licence Plate Recognition using YOLO " International Journal of Advanced Research in Computer and Communication Engineering" Vol. 10, Issue 8, August 2021" DOI 10.17148/IJARCCE.2021.10806
- Sagar Biswari, Merin Meleet, "Defence of CNN against the Adversarial Attacks"International Journal of Advanced Research in Computer and Communication Engineering Vol. 10, Issue 7, July 2021
- Prakhar Kant Kushwaha, Raman Kumar ,M.Meleet Customer Lifetime Value Prediction And Segmentation International Research Journal Of Modernization In Engineering Technology And Science , Volume 3, Issue 8, August 2021"
- Sampan S Nayak , Merin Meleet, Role of Autosuggest in e-commerce, International Journal of Engineering and Techniques - Volume 7 Issue 3, 126-131, June 2021, 10.29126/23951303/IJET-V7I3P20
- Merin Meleet, Ananya KVS , Study of Ontology Based Recommendation Systems", International Research Journal of Engineering and Technology (IRJET), vol. 8, Issue 6, IRJET-V8I6576, 4 pages, June 2021
- M.Meleet Animesh Singh, Ayush Gautam, , Neural Style Transfer: A Comparative Study Using VGG Network, Multidisciplinary Journal of Research in Engineering and Technology Volume 10 No.1 Pg. 16-24, eISSN:2348-6953
- Prinson Fernandez, Merin Meleet , Flappy Bird Automation Using Reinforcement Algorithm, Epra International Journal of Multidisciplinary Research ,
- Varshini , Uday A , Merin Meleet, A Neural Network for Identifying Exoplanets, International Journal of Advanced Research in Computer and Communication Engineering, Vol. 11, Issue 7, July 2022 , ISSN (O) 2278-1021, ISSN (P) 2319-5940
- M Meleet, Kushagra Jain, Rajot Saha, Scene Detection Using Convolution Neural Network (CNN), Multidisciplinary Journal of Research in Engineering and Technology, Volume 10 No.1 Pg. 8-15, eISSN:2348-6953

- Nikhil Sandilya, Merin Meleet, Plagiarism Detection using Natural Language Processing and Support Vector Machine, International Journal of Advanced Research in Computer and Communication Engineering, Vol. 11, Issue 7, July 2022, ISSN (O) 2278-1021, ISSN (P) 2319-5940
- Sri Vishnu, Merin Meleet, "Ultraviolet Index Analysis And Forecasting Using Deep learning Methodologies For Bengaluru City", EPRA International Journal of Multidisciplinary Research (IJMR) - Peer Reviewed Journal Volume: 8| Issue: 7| July 2022|| Journal DOI: 10.36713/epra2013
- Mohammed Ihtesham , Merin Meleet " Implementation of a Logging System for an Optical Networking Device" May 2023International Journal for Research in Applied Science and Engineering Technology 11(5):6341-6343 DOI:10.22214/ijraset.2023.53005
- Chetna Kumari, Merin Meleet, Transformative Trends: A Comprehensive Review of Large Language Models (LLMs) in Healthcare, International Journal of Scientific Research in Engineering and Management , Volume: 08 Issue: 06 | June - 2024

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Conference Papers

- Srinivasan Siddhamoorthy, Merin Meleet, Anurag Gupta, Anshul Sajit , "A Novel Machine-Learning Approach for Detection and Avoidance of Space Debris Collisions: , 22nd IAA Symposium on Space Debris, Held at the 75th International Astronautical Congress (IAC 2024), Milan , Italy, DOI: 10.52202/078360-0141
- M. Meleet, G. N. Srinivasan and N. G. Cholli, C. Rahul, "Clinical Data Analysis For Recognizing Named Entities," 2021 IEEE International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS), Bangalore, India, 2021, pp. 1-5, doi: 10.1109/CSITSS54238.2021.9683039.
- M. Meleet ,T. S. Dhanalakshmi, "Predicting Clinical Re-admission using Discharge Summaries (PCRUDS)," 2020 5th International Conference on Communication and Electronics Systems (ICCES), Coimbatore, India, 2020, pp. 772-777, doi: 10.1109/ICCES48766.2020.9137851.
- R. Kolle, S. Sanjana and M. Meleet, "Extractive Summarization of Text from Images," 2021 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), Chennai, India, 2021, pp. 1-4, doi: 10.1109/ICSES52305.2021.9633936.
- N. Agarwal, P. Seth and M. Meleet, "A New Sentence Similarity Computing Technique Using Order and Semantic Similarity," 2021 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), Chennai, India, 2021, pp. 1-5, doi: 10.1109/ICSES52305.2021.9633911.
- T. Agrawal, Suraj and M. Meleet, "Classification of Natural Disaster Using Satellite & Drone Images with CNN Using Transfer Learning," 2021 International Conference on Innovative Computing,

Intelligent Communication and Smart Electrical Systems (ICSES), Chennai, India, 2021, pp. 1-5, doi: 10.1109/ICSES52305.2021.9633803.

- Gaba, R. Subramaniam, and M. Meleet, "Analysis and Prediction of Earthquake Impact-a Machine Learning approach," 2019 4th International Conference on Computational Systems and Information Technology for Sustainable Solution (CSITSS), Bengaluru, India, 2019, pp. 1-5, doi: 10.1109/CSITSS47250.2019.9031026.
- S. A. Shabbeer and M. Meleet, "Smart Helmet for Accident Detection and Notification," International Conference on Computational Systems and Information Technology for Sustainable Solution (CSITSS), Bengaluru, India, pp. 1-5, doi: 10.1109/CSITSS.2017.8447702.
- S. Sajad, S. Dharshika and M. Meleet, "Music Generation for Novices Using Recurrent Neural Network (RNN)," 2021 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), Chennai, India, 2021, pp. 1-6, doi: 10.1109/ICSES52305.2021.9633906.
- D. M, H. A. S and M. Meleet, "Crime Prediction and Forecasting using Voting Classifier," 2021 Fourth International Conference on Electrical, Computer and Communication Technologies (ICECCT), Erode, India, 2021, pp. 1-5, doi: 10.1109/ICECCT52121.2021.9616911.

Books/Book Chapters

- S Tejaswi, M Meleet , A Comprehensive Review of Text and Image Generation Techniques in Generative Artificial Intelligence” Ulrich's, EI-Compendex, SCOPUS, Zentralblatt Math, MetaPress, Springerlink, WTI Frankfurt eG, zbMATH Indexed Springer (LNNS Series) [Approved by Springer LNNS Series].-2025 (Accepted for Publication)
- Chapter published in the book titled “AI and IoT-based Intelligent Health Care & Sanitation” by Bentham Science Publishers, 13-Apr-2023 ISBN: 978-981-5136-54-8, eISBN: 978-981-5136-53-1
- Srihari, C., Sunagar, Meleet, M. (2023). Question and Answer Generation from Text Using Transformers. In: Thampi, S.M., Mukhopadhyay, J., Paprzycki, M., Li, KC. (eds). ISI 2022. Smart Innovation, Systems and Technologies, vol 333. Springer, Singapore. https://doi.org/10.1007/978-981-19-8094-7_15 Print ISBN 978-981-19-8093-0
- Sharma, S., Prajapati, S., Meleet, M., (2023). Attendance Portal Using Face and Speaker Recognition. In: Hemanth, J., Pelusi, D., Chen, J.IZ. (eds) Intelligent Cyber Physical Systems and Internet of Things. ICoICI 2022. Engineering Cyber-Physical Systems and Critical Infrastructures, vol 3. Springer, Cham. https://doi.org/10.1007/978-3-031-18497-0_61 PRINT ISBN : 978-3-031-18496-3
- V.K.Prasad, M Meleet, Computational Models for Prognosis of Medication for Cardiovascular Diseases. S. Das et al. (eds.), Advances in Data-Driven Computing and Intelligent Systems, Lecture Notes in Networks and Systems 698, https://doi.org/10.1007/978-981-99-3250-4_24

R & Grants & Consultancy Projects

Ongoing & Completed Research Projects

- [National Dataset and Data platform- As a part of WIRIN projects – Funding Agency: WIPRO-IISc -2019
- Assisted Annotation – As a part of WIRIN projects – Phase II – Funding Agency: WIPRO-IISc -2020

Ongoing & Completed Consultancy Projects

- **Semantic App Search** – Funding Agency: Samsung -2023
- **AI Based Intra Prediction** – Funding Agency: Samsung – 2022

Professional Memberships

- Life Member – IETE
- Member – CSI

Student Supervision

- **M.Tech Students:** 30
- **Undergraduate Research Mentees:** 60

Professional Roles

- Session chair for 2 Day international conference at St.Francis College.
- Session Chair for two day National Level Technical Symposium at KMCT College of Engineering
- Reviewer for various IEEE conferences

Teaching

Core Courses: [Current semester]

- [CS123ATA] Fundamentals of Programming using C
- [MSE427SL] API Development and Integration Lab

Advanced/Lab Courses:

- Artificial Intelligence and Machine Learning Lab

Professional Roles

Responsibilities

- **Academic:** Time Table Officer
- **Administrative:** Quiklrn Co-ordinator, Compliance and Documentation Committee, Virtual Labs Coordinator

External Connect

- Member of Department Advisory Board, Dept of CSE, KMCT CE