

Name : Dr. M. SOFIA
Designation : Associate Professor
Department : Management Studies
Qualification : M.Sc(CS), M. Phil., Ph.D.,
Experience : Teaching:9 Years Research: 10 Years
Specialization: Data Mining, Big Data
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Academic Qualifications

| Degree | Branch | Institution / University Name | Year |
|--------|------------------|---|------|
| Ph.D | Computer Science | Sri Rama Krishna College of Arts and | 2023 |
| M.Phil | Computer Science | Bharathiar University, Coimbatore. | 2015 |
| M.Sc | Computer Science | Dr.R.V Arts and Science College, | 2013 |
| B.Sc | Information | Dr.R.V Arts and Science College, Karamadai. | 2011 |

Research Publications

INTERNATIONAL JOURNALS:

- A. S. Harsha Varthini, Dr. M.Sofia A Study on Consumer Perception Towards Eco Friendly Landuary Detergent with Reference to Coimbatore City, International Journal of Scientific Research in Engineering and Management(IJSREM), ISSN:2582-3930 , Vol. 9, Issue:04| April 2025.
- L.Manjula, Dr. M.Sofia ,A Study on Work-Life Balance of IT Sector with special Reference to Coimbatore City, International Journal of Scientific Research in Engineering and Management(IJSREM), ISSN:2582-3930 , Vol. 9, Issue:04| April 2025.
- M.Nighashni , Dr. M.Sofia ,A Study on Customer Satisfaction Towards Lakshmi Krishna Naturals with Reference to Thruppur City, International Journal of Scientific Research in Engineering and Management(IJSREM), ISSN:2582-3930 , Vol. 9, Issue:04| April 2025.
- P.Sabitha, Dr. M.Sofia ,A Study on Household's Saving Behaviour with special Reference to Coimbatore City, International Journal of Scientific Research in Engineering and Management(IJSREM), ISSN:2582-3930 , Vol. 9, Issue:04| April 2025.

- P.Shanmathy, Dr. M.Sofia ,Impact of Digital Currency on Financial Management in Youngster's in Coimbatore City, International Journal of Scientific Research in Engineering and Management(IJSREM), ISSN:2582-3930 , Vol. 9, Issue:04| April 2025.
- S.Sameena, Dr. M.Sofia ,The Study on Role of Content Marketing in Building Brand Loyalty, International Journal of Scientific Research in Engineering and Management(IJSREM), ISSN:2582-3930 , Vol. 9, Issue:04| April 2025.
- Dr.N.Tajunisha ,A Novel Composite Method using the Simplified Cuckoo Optimization Algorithm and Harmony Search for Cancer Classification, International Journal of Recent Technology and Engineering(IJRTE) Issn:2277-3878 volume-8 ,issue-8,Jan 2020 (Scopus Indexed).
- M.Sofia, Dr. N.Tajunisha , Trapezoidal Fuzzy Membership Valued Classifier and Mean Weighted Artificial Bee Colony (TFMVC-MWABC) for Co Expression Gene Selection Using Microarray Data, Jour of Adv Research in Dynamical & Control Systems, Vol. 9, No. 7, 2017(Scopus Indexed).
- M.Sofia, R.Sabarinathan ,S.Shivashankar ,Automatic 2D-To-3D Image Conversion A Study, International Journal of Advanced Research in Computer and Communication Engineering :DOI 10.17148/IJARCCE .
- Dr. N.Tajunisha, M.Sofia ,Mean Weighted Artificial Bee Colony (Mwabc) Based Feature Selection For Gene Co expression Using Microarray Data, International Journal of Advanced Research in Computer Communication Engineering :DOI 10.17148/IJARCCE.
- M.Sofia, S.Diviya ,A Comparative Study On Data Mining Algorithm For Gene Cancer Analysis, International Journal of Advanced Research in Computer and Communication Engineering :DOI 10.17148/IJARCCE .
- Dr.D.Ramyachitra, M.Sofia, Interval –value based particle swarm optimization algorithm for gene selection and tissue sample classification algorithm for leukemia datasets , Elsevier journal Genomic data 23 May 2015 (Scopus Indexed).
- Dr.D.Ramyachitra, M.Sofia, A Comprehensive study on Gene Selection and Tissue Sample Techniques, International Journal of Computer Applications & Information Technology vol.6,Issue II Aug-September 2014(ISSN:2278-7720).

Presentations in Conference/ Seminar

INTERNATIONAL CONFERENCE:

- Open AI Techniques for Fraud Detection, 8th International Conference on Sustainable Commerce through AI: Uncover the Potential, Hindusthan College of Arts & Science, Coimbatore on 7.2.2024.
- Solar based Charging Station for E-Bicycles, International Conference on Enhanced Techniques in Real-Time Applications, United College of Arts and Science, Coimbatore in association with ICT Academy of Tamil Nadu on 08.09.2023.
- Gene Expression Meta-Analysis by Integrating Data from Multiple Studies, International Conference on emerging social, mobile, Analytics and cloud e-SMAC 2018, Sri Ramakrishna College of Arts and Science for Women, Coimbatore 24.01.2018.
- Investigation study of discriminative gene selection and tissue sample classification methods for microarray data, International Conference on Innovations in information, Embedded and Communication Systems, Karpagam College of Engineering, Coimbatore 17 & 18.03.2016.
- Classification of Tissue Samples and Gene Selection: A Study, in the International Conference on Information and Image Processing (ICIIP-2014), Sankara College of Science and Commerce, Coimbatore .26.02.2014.

NATIONAL CONFERENCE:

- AI for Smart Environment, Second National Conference on Sustainable Computing, PSG College of Arts and Science, 02.02.2024.
- Transforming Environments: The Integration of Artificial Intelligence for Smart Solutions, Second National Conference on Sustainable Computing and Development, PSG College of Arts and Science, on 02.02.2024.
- A Review on New Education Policy 2020, Digitalization and Quality of Life in India Some Reflections, National Conference on National Education Policy 2020: Challenges and Opportunities for Higher Education Institutions in India, Dr. N.G.P. Arts and Science College, 27.12.2023.

Participation in Orientation Programme / Short Term Courses

- Skill development GST -Registration, Assessment and Filing of Returns-Phase III , Rashtriya Uchchar Shiksha Abhiyan (RUSA), on 02/11/2020 to 12/11/2020.
- Skill development Web Design Course for Entrepreneurship -Phase 1, Sponsored by Digital Career and Entrepreneurship Hub Project of MHRD BU RUSA Phase II BEICH, on 19/10/2020 to 31/10/2020.
- Skill development, Big Data Analytics, Big Data Initiatives Division (BDI) , on 04/07/2016 to 15/07/2016.

Short Term Training Programme (Sttp):

- Short term training, Recent Trends and Challenges in Data Science, Hindusthan College of Arts & Science, AICTE Sponsored, on 04.01.2021 to 09.01.2021.
- Short term training programme on Implementation of Outcome Based Education to Enhance the Quality of HEIs, Hindusthan College of Arts & Science AICTE, on 05.10.2020 to 10.10.2020.

Training Program:

- AICTE, Implementation of Outcome Based Education to enhance quality of HEIs, Sri Ramakrishna College of Arts and Science, Coimbatore, 05.10.2020 to 10.10. 2020.
- DST, BDI sponsored Ten Days Training Programme on Big Data Analytics, Bharathiar University, Coimbatore 04.07.2016 15.07.2016 July 2016.

Participation in Faculty Development Programme

- Cloud Infrastructure (AWS), Christ (Deemed to be University), Pune Lavasa Campus, Maharashtra in collaboration with Brainvisiob Solutions India Pvt Ltd and All India Council for Technical Education (AICTE) from 21.08.2023 to 25.08.2023.
- Empowering Education for Innovation-A NEP Perspective, Dr.N.G.P .Arts and Science College ,Coimbatore, from 30.06.2023 to 04.07.2023.
- Innovative Tools and Technology in Research, KG College of Arts and Science, Coimbatore from 15.06.2023 to 20.06.2023.

- Data Science Specialization using Python, Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore from 19.06.2023 to 23.06.2023.
- AI Applications and Its Impact on Business Practices, Sri Ramakrishna College of Arts and Science, Coimbatore held on 18.04.2023 to 22.04.2023.
- Research Trends in Science and Technology, Hindusthan College of Arts & Science, Coimbatore, from 06.03.2023 to 11.03.2023.
- Personality Grooming –Handling Stress and Emotional Intelligence, PPG College of Arts and Science, from 02.01.2023 to 06.01.2023.
- 21st Century Development in Inventions and Innovations: A Quality Initiative in Teaching and Learning Strategies from 20.06.2022 to 27.06.2022.
- Emerging Technologies in Computer Science Research, PPG College of Arts and Science Coimbatore from 19.12.2022 to 27.12.2022.
- Artificial Intelligence and its Applications, Hindusthan School of Computer Applications, from 28.01.2022 to 29.01.2022.
- Research Issues in Machine Learning and Artificial Intelligence, Pollachi College of Arts and Science, Pollachi, from 01.11.2021 to 03.11.2021.
- NTA NET/TNSET 2021, Hindusthan College of Arts and Science, from 10.08.2021 to 16.08.2021.
- Machine Learning, Deep Learning, and Natural Language Processing ToolKit with Hand-on-Practice Chandigarh University on 02.08.2021 to 06.08.2021.
- Nuances and Trends in Data Science, Hindusthan College of Arts and Science from 06.07.2021 to 30.07.2021.
- Multi-Technologies, Aarupadai Veedu Institute of Technology (AVIT) in collaboration with BRAIN O VISION, from 28 June to 03 July, 2021.
- Bloom's Taxonomy –An Insight,,Hindusthan College of Arts and Science 01.01.2021.
- Activities of Institutions to Impart Quality Education, Sree Narayana Guru College, Coimbatore, on 12.07.2021.
- Data Analysis using SPSS for Researchers, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, held on 31.05.2021 to 08.06.2021.
- Pedagogy and Research Methods , AMET Human Resource Development Centre (HRDC) and Internal Quality Assurance Cell (IQAC) held on 24.05.2021 to 06.06.2021.

- Pedagogical Innovations and Experimentation in Enhancing Learning Effectiveness for Gene Alpha, Hindustan College of Arts and Science from 04.02.2021 to 07.02.2021.
- Entrepreneurship, Bharathidasan College of Arts and Science, Erode, New Delhi from 20.01.2021 to 04.02.2021.
- Data Sciences, AICTE Training and Learning (ATAL) Academy 2020-12-15 to 2020-12-19 at NIT Mizoram.
- Intellectual Property Rights-how to apply, Hindusthan College of Arts and Science, Coimbatore on 12.10.2020.
- Discover the Teacher in You, Hindusthan College of Arts and Science, Coimbatore on 10.10.2020.
- Positive Thinking, VET Institute of Arts and Science, Coimbatore on 27.06.2020.
- Academic Writing and Opportunity for The Publication, Dr.SNS Rajalakshmi College of Arts and Science, on 17.06.2020.
- Flipped Learning –A Novel Pedology, Dr.R.V Arts and Science College, Coimbatore on 07.05.2020.
- Python 3.4.3, Adhiparasakthi Engineering College, Melmaruvathur, in association with Spoken Tutorial Project IIT Bombay from 16.04.2020 to 22.04.2020.
- Data Science & Data Analytics, United Institute of Technology, Coimbatore from 21.11.2016 to 25.11.2016.
- Resource Mobilization for Research Work, Pioneer college of Arts & Science, Coimbatore on 16 July 2016.

Participation in Workshop

- Outcome Based Education, Dr.N.G.P Arts and Science College ,Coimbatore in association with ipsr solutions limited, 04.03.2023.
- Research Article Writing and Publishing with Citation, Hindusthan College of Arts and Science, 15.12.2021.
- Outcome Based Education: Bloom's Taxonomy based Examination Question paper Framing for Computer Science, Internal Quality Assurance

Cell and Outcome Based Education Monitoring Council under UGC Paramesh Scheme, 27.09.2021.

- “Java Android “, GITAM, Hyderabad in association with BRAIN-O-VISION, 20.09.2021 to 25.09.2021.
- “Prototype-Career Readiness for Hackers”, G. Venkataswamy Naidu College, Kovilpatti ,19.08.2021.
- “Intellectual Property Rights “KG College of Arts and Science, Coimbatore ,30.12.2020 & 31.12.2020.
- “Is Blockchain and AI - solution for Cybersecurity” Connected Computing and Media Processing Lab, Kyungpook National University, South Korea Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore India, 01.10.2020.
- “Cyber Attacks and Attack Handling Methods”, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore in collaboration with Connected Computing and Media Processing Lab, Kyungpook National University, South Korea held on 30.09.2020.
- “MATLAB for solving Research Problems” Dr. N.G.P. Arts and Science College, Coimbatore on 31 .07. 2017.
- “Data Mining Applications in Genomics and Proteomics” Bharathiar University, Coimbatore on 24.01.2014.
- “Genome Computing”, Periyar University, Salem, on 30.01.2014.
- “Computer Vision and Image Processing Techniques”, Amrita University, Coimbatore on 06.02.2013 to 08.02. 2013.
- “Data Mining & its Applications Using Rapid Miner”, Dr. N.G.P. Arts and Science College, Coimbatore on 28.12. 2013.

Conference / Seminar / Workshop Organized

- Organizer, National Conference on Digital Information in Business: Opportunities & Challenges (DTBOC-23), Dr. N.G.P. Arts and Science College, Coimbatore, 05.09.2023
- Organizer, ICSSR National Conference on National Education Policy 2020: Challenges and Opportunities for Higher Education Institutions in India, Dr. N.G.P. Arts and Science College, Coimbatore, 27.12.2023.

Invited Speaker / Session Chair/ Reviewer

- Invited Speaker, Workshop on “Exploring Documentation Skills, Sri Ramakrishna College of Arts and Science on 30.03.2023.
- Invited Speaker, for Women’s Day, Discovering Women’s Hidden Talents, Shiri Kumaran College of Arts and Science on 08.03.2023.
- Invited Speaker, Fashion Jewellers Making, Pioneer College of Arts and Science topic entitled on 30.09.2022.
- Invited Speaker, Basics of Python Programming, P.K.R Arts College for Women on 12.11.2021.
- Invited Speaker, Python Programming, Angappa College of Arts and Science from 26.07.2021 &27.07.2021.
- Invited Speaker, Applications of Data Mining, Pioneer College of Arts and Science on 03.06.2021.

Membership in Professional Bodies

| Name of the Professional Body | Nature of membership | Duration |
|--|-----------------------------|-----------------|
| Indian Academics Researchers Association | Life-time | - |