

K. Sankareswari, MCA., M.Phil., NET, (Ph.D.,)

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VIDWAN ID & URL: 356964, <https://americacollege.irins.org/profile/356964>**Objective:**

To work with a reputed institution as an Assistant professor, that will provide me a good platform to utilize my teaching & administration skills and will help me to grow my career.

Academic Qualification:

Degree/Diploma/ Certificate	Year	Institution	Board of Control	Aggregate
Ph.D (Part time)	Pursuing Since February 14,2022	Sri Meenakshi Govt. College for Women (Autonomous), Madurai	Madurai Kamaraj University	-
UGC NTA NET (Computer Science and its Applications)	June 2020	-	UGC-NTA NET	-
M.Phil., Computer Science	2006-2007	Madurai Kamaraj University	Madurai Kamaraj University	58%
MCA	2002-2005	Sri Meenakshi Govt. College for Women (Autonomous), Madurai	Madurai Kamaraj University	86.97%
B.Sc. Computer Science	1998-2001	Sri Meenakshi Govt. College for Women (Autonomous), Madurai	Madurai Kamaraj University	80.1%

Class	Year	School	Aggregate
XII	1998	Mangayarkarasi Higher Secondary School, Madurai	82.75%
X	1996	Mangayarkarasi Higher Secondary School, Madurai	78.8%

Area Expertise:

- Specialization in Teaching: C, C++, Java, Python, Operating System, DBMS, Software Engineering, Computer Networks, Web Technologies, Advanced Java, Data Analytics Using Python
- Specialization in Research: Image Processing, Machine Learning, Deep Learning
- Research Interests: Artificial Intelligence, Deep Learning, Computer Vision and Data Analytics

Teaching Experience:

- Working as an Assistant Professor in Department of Computer Science (Satellite Campus), The American College, Madurai from July 05, 2021 – till date.
- Worked as an Assistant Professor in Department of Information Technology, Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi from June 2, 2016 – July 3, 2021.
- Worked as an Assistant Professor in Fatima College, Madurai from June 16, 2014 – May 31, 2016.

Other Experience:

- Worked as a Web Designer in DHAN Foundation, Madurai from December 2006-June 2014.
- Worked as a Computer Programmer cum Faculty in CAD Corner Computer Education, K.Pudur, Madurai from July 2005 – September 2006.

Membership in Professional Bodies:

- Board of Studies member as Student Nominee for the Board of BCA and MCA, Sri Meenakshi Govt. Arts College for Women, Madurai from the year 2018-till date.
- Board of Studies member for the Board of B.Sc., Computer Science and M.Sc., Computer Science, The American College, Madurai from the year 2021-till date.

Paper Publications in UGC Care/Springer/Scopus/Web of Science/IEEE:

- Published a Paper titled “Evaluation of an Ensemble technique for Prediction of Crop Yield”, in the Journal of ACM International Conference Proceeding Series (ICPS), 2023 ACM. ISBN 979-8-4007-0941-8/23/11, <https://doi.org/10.1145/3647444.3647833>
- Published a Paper titled “A Comparative Study on Machine Learning Based Classifier Model for Wheat Seed Classification.” In: Chbeir, R., Manolopoulos, Y., Prasath, R. (eds) Mining Intelligence and Knowledge Exploration. MIKE 2021. Lecture Notes in Computer Science(), vol. 13119. E-book ISSN:978-3-031-212517-9, Series ISSN:0302-9743, Series E-ISSN:1611-3349 Springer, Cham. https://doi.org/10.1007/978-3-031-21517-9_12
- Published a paper titled “Deep Learning in Agricultural Domain-A Survey” in the Journal of Maharaja Sayajirao University of Baroda, UGC Care Group I Journal, Vol no: 54, No. 2(V), 2020-2021, ISSN No: 0025-0422
- Published a paper titled “A Review on Key Challenges in Integration of Cloud Computing and Internet of Things” in the National Seminar on Emerging Trends in Computing Technologies, Shanlax International Journal of Arts, Science and Communication, UGC Care Approved Journal Sr. No.: 43960, 80-83, 2018, ISSN-2321-788X
- Published a paper titled “The Role of Biometric Technology in Internet of Things (IOT) Security” in the International Journal of Computer Engineering and Applications, UGC Care

Approved Journal Sr. No.: 44835, Volume XII, Issue I, Jan. 18, www.ijcea.com ISSN 2321-3469

- Published a paper titled “Hybrid Approach for Securing Biometric Templates Using Visual Cryptography” in the International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS), September 2015, UGC Care Approved Journal Sr. No.: 4033931, SJIF 2018: 7.405, ISSN: 2321-7782 (Online) ISSN: 2347-1778 (Print), <https://ijarcsms.com/docs/paper/volume3/issue9/V3I9-0007.pdf>

Book Chapter Publications in Springer/Scopus/Web of Science/IEEE:

- Published a Book Chapter titled “Crop and Fertilizer Recommendation System for Sustainable Agricultural Development”, in the Springer Nature Switzerland AG 2024, B. Sundaravadivazhagan et al. (eds.), Intelligent Robots and Drones for Precision Agriculture, Signals and Communication Technology, https://doi.org/10.1007/978-3-031-51195-0_16
- Published a Book Chapter titled as “IoT-Based Machine Learning Approach for Rice Plant Disease Detection” in the book “Internet of Everything: Smart Sensing Technologies”, Nova Science Publishers, June, 2022, Pg.No: 227-248, ISBN: 978-1-68507-865-2, <https://doi.org/10.52305/PNQM1088>

Articles Published in Conferences/Journals:

- Paper entitled “Deep Learning-based Ensembling Technique for Crop Yield Prediction” submitted in the International Conference on Advancement in Computational Technologies and Intelligent systems – 2024 (ICACTIS'24) organized by the Department of Computer Science in collaboration with ICT Academy, Mary Matha College of Arts & Science, Periyakulam East, Then Dist, Tamilnadu, India.
- Presented the paper entitled “Evaluation of an Ensemble technique for Prediction of Crop Yield” in the “5th International Conference on Information Management & Machine Intelligence (ICIMMI 2023)” held during December 14-16, 2023 at Poornima Institute of Engineering & Technology, Jaipur, Rajasthan.
- Presented the paper entitled “A Comparative Study on Machine Learning Based Classifier Model for Wheat Seed Classification (Short Paper) (Paper ID: 17) at the 8th International Conference on Mining Intelligence & Knowledge Exploration(MIKE), held between November, 01 - 03, 2021 at Hammamet, Tunisia
- Presented the paper titled “Deep Learning in Agricultural Domain-A Survey” at the International Conference on Recent Trends & Technologies in Soft Computing(ICRTSC'20) held on September 28-29, 2020 organized by Department of Computer Science & Applications, St. Peter's Institute of Higher Education & Research (SPIHER), Avadi, ISBN: 978-93-5416-195-7.
- Presented a paper entitled “Deep Learning Approaches for Paddy Disease Recognition and Classification – A Review” at the International Conference on Digital Transformation

organized by the School of Computer Science, The American College, Madurai on March 05, 2020, Page No: 12, ISBN: 978-93-878765-29-7.

- Presented a paper entitled “A Review on Key Challenges in Integration of Cloud Computing and Internet of Things” on National Seminar on Emerging Trends in Computing Technologies organized by the Dept of CS & Dept of IT, Madurai Sivakasi Nadars Pioneer Meenakshi Women’s college, Poovanthi on February 16, 2018.
- Presented a paper entitled “The Role of Biometric technology in Internet of Things(IOT)” on UGC Sponsored National Conference on Data Science (ISSN-2321-3469, Page No: 505-508) organized by the Department of CS, IT, Software & CA, NPR college of Arts and Science, Natham, Dindigul District on 29th December 2017.
- Presented a paper entitled “A Systematic Study on Graph based approaches for Digital Image Processing” on Global Talent Management in the digital Era(ISBN- 9789386537959), organized by Fatima College, Madurai on 13th September 2017.
- Presented a paper entitled “Role of ICT in Teaching” on NAAC Sponsored Two Days National Seminar on Quality Enhancement in the Contemporary Higher Education Scenario (ISBN: 978-81-929180-2-0, Page No: 32) by the Internal Quality Assurance Cell, Sadakathullah Appa College(Autonomous), Rahmath Nagar, Tirunelveli on 07th & 08th February 2017.
- Presented a paper entitled “A Study on cloud Adoption Barriers and Challenges” on International Seminar on Managing Disaster a Strategic Perspective (ISBN: 978- 8 - 1930 - 234 – 26, Page No: 31) by the Dept of M.Sc IT & Dept of MBA, Fatima College, MDU on 29th & 30th September 2016.
- Presented a paper entitled “Cloud computing security -issues and challenges” on National Seminar on Emerging Trends in Data Analysis & Animation by the Dept of BCA, Fatima College, MDU on February 19, 2015.
- Presented a paper entitled “Multimodal biometric based authentication for the cloud environment (Page No: 169, ISBN: 978-81-93-02-349-5)” on National Conference on Innovative Technologies and Advanced Computing by the Dept of MCA, Fatima College, MDU on September 11, 2015.
- Presented a paper entitled “An overview of biometric data security using various visual cryptography schemes” on National Conference on technology and organizational strategies organized by Dept of M.Sc IT, Fatima College, MDU on August 21, 2015.
- Presented a paper entitled “Cyber Crime and Security Measures” on National seminar on Trendy Technologies in Computer Science & Applications organized by Maharani College of Arts and Science College, Nanjiyampalayam, Dharapuram on January 09, 2015.
- Published a paper entitled “A Comparative Study on Biometric System Authentication - Security and Usability” in the International Journal of Emerging Trends in Computing and Communication Technology(IJETCCT), Volume 1, No 2, Page: 103, November 2014, ISSN 2348 4454

- Presented a paper entitled “Hybrid biometric system” on International conference on Social Media for service sector organized by the Dept of MCA, PG IT, MBA, Fatima College, MDU on August 20 & 21, 2014, Page: 186, ISBN:978-1-63315-205-2

Seminar/Conference/Training Programmes/FDP/Workshops Attended:

- Participated in One Day National conference on “Ensuring the quality of Academics and Research in HEI’s” organized by the IQAC, The American College, Madurai on 28.01.2025.
- Participated in One Day State level workshop on “Data Crunch Analytics using Python” organized by the Department of Computer Science and Computer Science (AI) on 10.12.2024.
- Participated in Five Days International Workshop Series on “Artificial Intelligence” from 23-26 November 2024 organized by The American College, Madurai & CSI Jeyaraj Annapackiam College of Nursing, Madurai in collaboration with the UNESCO Chair & Asia Pacific University, Malaysia.
- Participated in three days FDP on Research innovations, patenting & quality publications organized by the Department of MCA, Fatima College, Madurai from 26.02.2024 to 28.02.2024.
- Participated in National Webinar on “Latest Trends in Technology” organized by Department of BCA, The American College, Madurai on 17.02.2024.
- Participated in TANSHE Sponsored Workshop on “Case Study Data Science and AI Application” organized by Department of Computer Applications, Sri Meenakshi Govt. Arts College for Women (A), Madurai on August 30, 2023.
- Participated in Online Workshop on Python organized by GUVI and Google for Education on August 10, 2023.
- Participated in Five Days FDP on Python Programming organized by ICTACT in association with E.M.G Yadava Women’s College, Madurai from 31.07.2023 to 04.08.2023.
- Participated in Five Days FDP on Full Stack Development, Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar from 11.07.2023 to 15.07.2023.
- Participated in Two Days National Workshop on “Mathematics and Statistics for Data Analytics” organized by Department of Mathematics & Computer Science (Satellite Campus), The American College, Madurai from June 21, 2023 to June 22, 2023.
- Participated in “Role of Artificial Intelligence in Power Sector” organized by Department of Electrical and Electronics Engineering, PSN College of Engineering and Technology from May 26, 2023 to June 02, 2023.
- Participated in Five Days FDP on Robotic Process Automation Associate (UiPath) organized by ICTACT in association with Lady Doak College, Madurai from 22.05.2023 to 26.05.2023.

- Participated in State Level Workshop on “Machine Learning with Python” organized by Department of BCA (Satellite Campus), The American College, Madurai from March 15, 2020 to March 16, 2023.
- Participated in Interactive Workshop on Art & Science of Methodical Scientific Writing and Publishing in a High-Impact Journal organized by IQAC, The American College, Madurai on March 06, 2023.
- Participated in Five Days National Level Online FDP on “Artificial Intelligence/Machine Learning/Deep Learning” organized by the Department of Computer Science & Engineering, DRK College of Engineering and Technology in association with Invictus Engineer, Hyderabad from February 20, 2023 to February 24, 2023.
- Participated in Five Days Virtual National Level FDP on “Recent Advancements in Computing Technology” organized by the Department of Computer Science, Sri S.Ramasamy Naidu Memorial College, Sattur from February 13, 2023 to February 17, 2023.
- Participated in State Level Seminar on “Intellectual Property Rights” organized by the Department of BCA, The American College, Madurai on February 03, 2023.
- Participated in International Webinar on “Emerging Trends in Cyber Security (IWTCS’22)” organized by the PG Department of Computer Science, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam on December 20, 2022.
- Participated in Two Days National Level Seminar on “Role of NAAC with NEP as a Quality Tool for Higher Education” organized by IQAC, Sri Ranganathar Institute of Engineering and Technology, Coimbatore from December 16, 2023 to December 17, 2022.
- Participated in Online National Level FDP on Recent Research Convergence in Artificial Intelligence and Internet of Things organized by the Department of Computer Applications, Bon Secours College for Women, Thanjavur from 21.11.2022 to 25.11.2022.
- Participated in One Day Seminar on “Best Practices for Selecting Quality Journals” organized by the Research Cell, The Library and Department of Computer Applications on 23.09.2022.
- Participated in Webinar on “Technological Innovation and Artificial Intelligence” organized by the Department of Computer Science, IT & BCA, Mannar Thirumalai Naicker College, Madurai in association with ICT Academy of Tamilnadu on 06.04.2022.
- Participated in Virtual International Faculty Development Programme "Auto ML" organized by the Department of Computer Science, Lady Doak College, Madurai on 04.03.2022.
- Participated in three Days National Webinar on "Mystic World of Data Science and AI" organized by the Department of Data Science, The American College, Madurai from 11.10.2021 to 13.10.2021.

Lectures/Talks given:

- Seminar on “Mobile App Development” organized by the Department of IT, CSI Arts and Science College for Women, K.Pudur, Madurai on 19.07.2024.
- Seminar on “Artificial Intelligence Tools” organized by the Department of IT, CSI Arts and Science College for Women, K.Pudur, Madurai on 04.09.2023.
- Seminar on “An overview of Deep Learning and its Applications” organized by the PG and Research Department of Computer Science, Sri Meenakshi Govt. Arts College for Women (A), Madurai on 24.01.2023.
- Guest Lecture on Mobile App Development, Young Student Scientist Programme’2022 organized by The American College, Madurai on 30.05.2022.
- Alumni Mentoring Session on “How to crack UGC-NTA NET Exam?” organized by the Department of Computer Applications, Sri Meenakshi Govt. Arts College for Women, Madurai on 22.04.2022.
- Guest Lecture on Software Design Concepts organized by the Department of MCA, Fatima College, Madurai on 01.10.2021.
- Guest Lecture on ‘Atomic Habits’ Book Review organized by Sri Meenakshi Govt. Arts College for Women (A), Madurai on 24.12.2021.
- Guest Lecture on Kernel of Software Engineering organized by the Department of Computer Applications, Sri Meenakshi Govt. Arts College for Women (A), Madurai on 20.12.2021.

Awards / Fellowships:

- Received State Level award “Kalvi Sevaga Kalaimani Award-2016” from Kaviyarasar Kalai Tamil Sangam for the encouragement of student participation in various competitions.

Academic/Administrative Positions:

- IQAC representative – Department Level from July 2021-till date.
- NAAC and AAA Working Committee (Member) - Department Level from July 2021-till date.
- Academic Advisor from July 2021-till date.
- Admission Work (Member) - Department Level from July 2021-till date.
- Member in Madurai Kamaraj University Examination Board from 2022-till date.
- Member in Alagappa University Examination Board from 2017-2021.
- Question Paper Setter for External Examination in E.M.G Yadhava Women’s College, Madurai, Sri Meenakshi Govt. Arts College for Women, Madurai, Lady Doak College, Madurai, Sri Nehru Memorial College (Autonomous) Puthanampatti, Tiruchirappalli, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode and Dr. N.G.P

Arts and Science College, Dr. N.G.P Nagar, Kalapatti, Coimbatore from the year 2022-till date.

- External Examiner for Paper Valuation in Yadava College, Madurai, Sri Meenakshi Govt. Arts College for Women, Madurai and E.M.G Yadhava Women's College, Madurai from the year 2023-till date.
- External Examiner for External Practical Examination in Sri Meenakshi Govt. Arts College for Women, Madurai, Fatima College, Madurai, Lady Doak College, Madurai from the year 2018-till date.
- Coordinator for Quality Circle of Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi from from June 2017- July 2021.
- Coordinator, Spoken Tutorial Online Course [An initiative of National Mission on Education through ICT, MHRD, Govt. of India, to Promote IT literacy through Open Source Software], IIT, Bombay Organized by Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi from July 2017- July 2021.
- Staff In-Charge of Extension Activity in MSN Pioneer Meenakshi Women's College, Poovanthi from June 2017- July 2021.
- Member of Time Table and Workload Committee, Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi.
- Editorial Board Member of MasivJ Bi - Annual Journal, ISSN-2321-788X, Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi.
- Coordinator for Erudition Expo'16 & 17 held at Sivagangai and Manamadurai Organised by Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi.
- Staff In-Charge of Extension Activity in Fatima College, Madurai from June 2015-April 2016.
- Core of Core group member, Meditation in Action Movement in Fatima College, Madurai from July 2015-June 2016.
- Coordinator, Spoken Tutorial Online Course [An initiative of National Mission on Education through ICT, MHRD, Govt. of India, to Promote IT literacy through Open Source Software], IIT, Bombay organized by Fatima College, Madurai from July 2015- April 2016.
- Coordinator of Consumer Club in Fatima College, Madurai from June 2014-June 2015.

Other Activities / Academic Credentials:

- Acted as a Research Guide for the research paper on the topic "Localising Sustainable Development Goals – The Role of ICT in Women Empowerment" based on the analysis report of the survey taken for extension activity presented on National Level Intercollegiate Research Fest 'Exploria'19' on theme of 'Sustainable Development Goals' organized by Research Advisory Committee, Fatima College, Madurai on February 20, 2019. Also got 5 th position and bagged the medal and certificate for the presentation.

- Created MSN course portal which is Moodle website for uploading E-Resources and Feasible questions for Madurai Sivakasi Nadars Pioneer Meenakshi Women’s College, Poovanthi.
- Online Application System for Madurai Sivakasi Nadars Pioneer Meenakshi Women’s Collge Admission is developed using PHP and MySQL. Online application system that enables the student to fill their application form online and submit it. They can also submit their necessary documents like passport size photograph, certificates and mark sheets along with the identity proof. <http://www.msnpioneercollege.edu.in/onlineapplicationsystem/>
- Developed a Student-Staff feedback collecting system from the students and provides the automatic generation of a feedback report which is given by students. The project is developed using PHP as front end and MySQL as back end. The aim of this project is to rate and analyse the college faculty’s performance. <http://www.msnpioneercollege.edu.in/msnfms/>
- Developed a website for MAM (Meditation in Action Movement), Fatima College, Madurai. <https://fatimacollegemdu.org/mam/>

Personal Profile

Father’s Name : T. Kaverimanian
 Husband’s Name : A. Ravindranathan
 Date of Birth : 14-03-1981
 Nationality : Indian
 Sex : Female
 Languages Known : Tamil, English & Hindi
 Address : 22/37, Maninagaram Second Street, Madurai – 625001.

I hereby declare that all the statements made above and information given in this application is true and correct to the best of my knowledge and belief.

Place: Madurai

(K. SANKARESWARI)