

Ms. S. VALARMATHI

Assistant Professor
School of Computing Science

Qualification : M.Sc., NET., (Ph.D.)

Experience : **Research** : 2 Years

Research Areas : Image Processing, Data mining, Data analytics



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🌐 <http://kprcas.ac.in/academics/cs>



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Avinashilingam University, Coimbatore	Pursuing
M.Sc.	Computer Science	Sri Krishna Arts and Science College [Bharathiar University], Coimbatore	2019
B.Sc.	Computer Science	Sri Krishna Arts and Science College [Bharathiar University], Coimbatore	2017



Additional Qualifications

Qualified UGC-NET for eligibility for **Assistant Professor** held on 11th November, 2020 in the subject **Computer Science and Applications**.



Online Certifications

Certification Details	Area of Specialization	Institution / University / AgencyName	Year
Online Certifications	Introduction to Psychology	Yale University	2021
	Mindware: Critical Thinking for the Information Age	University of Michigan	2021
	Neural Networks and Deep Learning	DeepLearning.AI	2021



Academic Positions @ KPRCAS

- Assistant Professor – School of Computing Science



Significant Publications

International Journals

- Published a paper entitled 'Global Positioning System based Logistics Management System' in International Journal of Trend in Research and Development, Vol. 4 (2017), pp. 532-534. [Impact Factor: 4.004]
- Published a paper entitled 'A Comparative Study of Genetic Algorithm and Particle Swarm Optimization' in IOSR Journal of Computer Engineering, 2017, pp. 18-22.
- Published a paper entitled 'Different Methods of Defect Detection – A Survey' in International Journal for Science and Advance Research in Technology, Vol. 4 (2018), pp. 66-68. [Impact Factor: 6.224]
- Published a paper entitled 'A Review on Diabetic Retinopathy Disease Detection and Classification using Image Processing Techniques' in International Research Journal of Engineering and Technology, Vol. 7 (2020), pp. 546-555. [Impact Factor: 7.529]
- Published a paper entitled 'Contrast enhancement of Retinal Fundus Images using Histogram-based methods – A Comparative Analysis' in NIU International Journal of Human Rights [UGC Care Group I], Vol. 8 (VII), 2021, pp. 132-138.

International Conferences

- Presented a paper entitled 'Network Traffic Analysis using Packet Sniffer'[Conference Proceedings] in the International Conference on Emerging Social, Mobile, Analytics and Cloud e-SMAC 2018 organized by Sri Ramakrishna College of Arts and Science for Women on January 24th 2018, Coimbatore, India.
- Presented a paper entitled 'An Efficient Wavelet-based Image Denoising Technique for Retinal Fundus Images' in the International Conference on Innovation & Sustainability [Springer, Algorithms for Intelligent Systems book series] organized by JK Lakshmipat University on February 5 - 6, 2021, Jaipur, India. [DOI:[10.1007/978-981-16-2248-9_36](https://doi.org/10.1007/978-981-16-2248-9_36)]
- Presented a paper entitled 'A Survey on Diabetic Retinopathy Disease Detection and Classification using Deep Learning Techniques' in the 2021 Seventh International Conference on Biosignals, Images and Instrumentation [IEEE Xplore] organized by Department of Biomedical Engineering, Sri Sivasubramaniya Nadar College of Engineering on March 25-27, 2021, Chennai, India. [DOI: 10.1109/ICBSII51839.2021.9445 163]



Academic Achievements/Participations - Conferences, Seminars, Workshops & FDP's

- Participated and secured 2rd place in the quiz event conducted as part of Annual Day Celebration 2K17.
- Participated and secured 2nd place in the quiz event of National level technical symposium COLLOQUIUM 2K16 organized by Sri Krishna College of Engineering and Technology on 3rd Mar 2016.
- Presented and secured 3rd place in the paper presentation event organized by the Dept. of Computer Science as part of EXXON 2K16, Intra department technical fest held on 3rd Feb 2016.
- Presented the paper entitled 'Fog Computing' in NOVA CEST'16, an intercollegiate technical fest organized by Sri Krishna Adithya College of Arts and Science on 5th Feb 2016.
- Presented the poster entitled 'Google Authenticator' in the National Conference on Data Science organized by computer science streams of Sri Krishna Arts and Science College on 26th Feb 2016.
- Participated in the BIZTRAC'16 – an open business quiz contest organized by PSG college of Arts and Science on 11th Sept 2016.
- Participated in the quiz event of National level technical symposium ELEMENTS 2K16 organized by Sri Ramakrishna Engineering College on 3rd Oct 2016.
- Secured Basket ball winners up in the Annual Sports Meet for 2016-2017, Sri Krishna Arts and Science College.
- Participated and secured 1st place in the quiz event at the state level intercollegiate meet TECHNOTRY 2K18 organized by Sri Ramakrishna College of Arts and Science for Women on 28th Sept 2018.
- Participated and secured 2rd place in the quiz event conducted as part of Annual Day Celebration 2K18.
- Participated and secured 2nd place in the sketching event organized by the Dept. of Computer Science as part of EXXON 2K19, Intra department technical event held on 7th Feb 2019.
- Presented and secured 3rd place in the paper presentation event organized by the Dept. of Computer Science as part of EXXON 2K18, Intra department technical exhibition held on 26th Feb 2018.
- Participated in the One Day National Seminar on Recent Research Problems in Computer Science held on 28th July 2017 organized by the Department of Computer Science, Government Arts College, Udumalpet sponsored by Tamil Nadu State Council for Science and Technology, Chennai.
- Presented the poster entitled 'Blockchain Technology' in the National Conference on Intelligent Learning and Computing NCILC'19 organized by computer science streams of Sri Krishna Arts and Science College on 13th Feb 2019.
- Participated in the paper presentation event at the state level intercollegiate meet TECHNOTRY 2K18 organized by Sri Ramakrishna College of Arts and Science for Women on 28th Sept 2018.
- Participated in the quiz event organized at Hindusthan College of Arts and Science in association with The New Indian Express and Punyah Foundation on 21st Aug 2018.
- Secured Basket ball winners up in the Annual Sports Meet for 2017-2018, Sri Krishna Arts and Science College.
- Secured Basket ball winners up in the Annual Sports Meet for 2018-2019, Sri Krishna Arts and Science

College.

- Attended 'Research Convention – Fundamentals for Scholar Friendly Quality Research' held at Avinashilingam Institute for Home Science and Higher Education for Women on 15th & 16th Nov 2019.
- Participated in the One-Day Awareness Programme on 'Artificial Intelligence – In Common Man's Perspective' under the DST-CURIE-AI facility, Avinashilingam Institute for Home Science and Higher Education for Women on 25th Sept 2019.
- Successfully completed three online Coursera non-credit courses. 1. 'Introduction to Psychology' authorized by Yale University, 2. 'Mindware: Critical Thinking for the Information Age' authorized by University of Michigan, 3. 'Neural Networks and Deep Learning' authorized by DeepLearning.AI.
- Participated in the Faculty Development Programme on Big Data Analytics organized by the Department of Computer Science, Dr. G.R. Damodaran College of Science on 28th Aug 2019.
- Participated in the one day seminar titled 'Intellectual Property Rights and Patenting' held at Avinashilingam Institute for Home Science and Higher Education for Women on 11th Oct 2019.
- Participated in the Webinar on "Cyber Security" organized by the Department of Computer Technology, Sri Krishna Adithya College of Arts and Science on 30th April 2020.
- Successfully completed a five day online Faculty Development Program (FDP) on Linux organised by Pramukh Swami Science & H D Patel Arts College, Kadi (Gujarat) in association with Spoken Tutorial, IIT Bombay on May 01- May 05, 2020.
- Participated in the International Faculty Development Programme on 'Develop the ability to write research proposal' conducted by Adarsh Group of Institutions, AIMIT on 24th April 2020.
- Participated in the webinar, 'Basics of Data Analytics' organized by the Departments of Computer Science, Information Technology and Computer Applications of Kovai Kalaimagal College of Arts And Science on 16th May 2020.
- Participated in the Rashtriya Uchchar Shiksha Abhiyan (RUSA) sponsored webinar on 'The Art of Writing Research Papers' organized by the Internal Quality Assurance Cell (IQAC), Mar Athanasius College Kothamangalam on 14.05.2020.
- Participated in the webinar on 'Writing a Winning Project Proposal' organized by the Internal Quality Assurance Cell, Mar Athanasius College Kothamangalam on 11.05.2020.
- Participated in the Faculty Development Programme on 'Machine Learning Model Based Solution for COVID 19' organized by the Department of Computer Science, Nirmala College for Women on 18.05.2020.
- Participated in the International Webinar on 'Sentiment Analysis – Concepts and Applications' organized by the Department of Computer Science and Information Technology, Nehru Arts and Science College on 14th May 2020.
- Participated in the LaTeX course organized at Sree Narayana Guru College offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India on 15th May 2020.
- Participated in a webinar on 'Enhancing Manuscript with Endnote' organized by the Library, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore in collaboration with Clarivate Analytics, Chennai held on 14th September 2020.
- Attended the Webinar on 'Use of Scopus Research Analytics in Research Workflow' organized by the Library, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore in

collaboration with Elsevier held on 25.09.2020.

- Participated in the Webinar on “Advanced Concepts in IoT” organized by the Department of Computer Science, School of Physical Sciences and Computational Sciences, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on July 17, 2020.
- Participated in the one week Online Short Term Training Program on Computer Networks organized by the Department of Computer Science and Engineering, Arasu Engineering College, Kumbakonam from 6th to 11th July 2020.
- Participated in the one day online Webinar programme on Machine Learning Onramp – Demo on building learning models, comparison and visualization organized by the Department of Computer Science and Engineering, Gnanamani College of Technology held on 13.06.2020.
- Participated in the Webinar titled ‘Effective Teaching in Technical Institutions’ organized by Research and innovation centre of Dr. M. G. R Polytechnic College on 11.06.2020.
- Participated in the Webinar session entitled ‘Current Scenario on Big Data’ organized by Kongunadu Arts and Science College held on 20/05/2020.
- Participated in the Research Issues in Digital Image Processing Webinar conducted by the Department of Computer Science, Government Arts and Science College, Kovilpatti on 05/06/2020.
- Successfully completed online Faculty Development Program on ‘Machine Learning and Deep Learning’ held on 27-31 May 2020, organized by the Department of Electronics and Instrumentation Engineering, SRM Institute of Science and Technology, Kattankulathur.
- Participated in Virtual Faculty Development Program on Neural Networks and Deep Learning using Python held from 1-5 June 2020 organized by school of computing and information technology, REVA University, Bengaluru.
- Participated in the Webinar on ‘Machine Learning concepts: overview’ organized by the Department of Biomedical Engineering and Department of Robotics Engineering, Karunya Deemed University on 26th May 2020.





Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
MyKlassRoom Top Performer of the College Award - UG	Sri Krishna Arts and Science College, Coimbatore	2016
Best Outgoing Student of the Department Award - PG	Sri Krishna Arts and Science College, Coimbatore	2019
Best Outgoing Student of the College Award - PG	Sri Krishna Arts and Science College, Coimbatore	2019
Honored for being an active worker as the Chairman of Computer Science Association – PG	Sri Krishna Arts and Science College, Coimbatore	2019

Class Topper Award for the academic years (2018 & 2019)	Sri Krishna Arts and Science College, Coimbatore	2018 & 2019
Reviewer - International Conference on Communication, Information and Computing Technology (ICCICT-2021, IEEE Conference)	Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology, Mumbai, India.	2021
Reviewer – 6 th International Conference on Computational Intelligence in Data Mining (ICCIDM-2021, Springer Conference)	Aditya Institute of Technology and Management, Tekkali, AP, India.	2021



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	https://scholar.google.com/citations?user=HUZF2CAAAAAJ&hl=en
	https://www.researchgate.net/profile/Valarmathi-Srinivasan-2