

Name : Dr. C. Karpagam

Designation : Associate Professor

Department : Computer Science with Data Analytics

Qualification : M.C.A., M. Sc. (CP), TN – SET., UGC - NET., Ph.D.

Experience : Teaching – 16 Years | Research – 5 Years | Industry - 1Year

Specialization: Machine Learning

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Academic Qualifications

Degree	Branch	Institution / University Name	Year
Ph.D.	Computer Science	Bharathiyar University	2025
M. Sc.	Counseling and Psychotherapy	TNOU, Chennai	2013
MCA	Computer Applications	KGISL IIM, Coimbatore	2008
B.Sc.	Computer Science	Kongu Arts and Science College, Erode	2005

Additional Qualifications

Dip. / Cert.	Area of Specialization	Institution / Agency Name	Year
SET	Computer Science	TN-SET	2016
NET	Computer Science	UGC-NET	2019
Certificate	Introduction to R Software	NPTEL – IIT Kanpur	2017
Certificate	The Joy of Computing using Python	NPTEL - IIT Madras	2018
Certificate	Python for Data Science	NPTEL - IIT Madras	2019
Certificate	Data Science for Engineers	NPTEL – IIT Madras	2020
Certificate	Introduction to Machine Learning	NPTEL - IIT Kharagpur	2021
Certificate	Learning Analytics Tools	NPTEL – IIT Bombay	2022
Certificate	Deep Learning	NPTEL – IIT Kharagpur	2024
Certificate	Business Intelligence & Analytics	NPTEL – IIT Madras	2025
Certificate	Problem Solving through Programming in C (Mentor)	NPTEL – IIT Madras	2022, 2023, 2024, 2025

Research Publications

- 1) Karpagam C, **The Collective Spatial Keyword Query Processing based on User Preferences**, International Journal of Advanced Research in Computer Science, A UGC Approved Journal, December 2017, ISSN: 0976-5697.
- 2) Karpagam C, **Examination of Location Based Services and User Preferences**, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-2S3, December 2019, Pg. No: 342-346. (Indexed in Scopus)
- 3) Karpagam C, Gomathi S, **A Primary Predictive Study on Prevalence of Kidney Diseases in Women Using Machine Learning Techniques**, Wutan Huatan Jisuan Jishu, UGC-CARE-GROUP-II-Journal ISSN:1001-1749, Volume XVI, Issue VIII, August 2020, Pg. No: 143 – 148. (Indexed in UGC)
- 4) Karpagam, C., & Rohini, S. G. **Examination on Early Detection of Autism Syndrome in Child Development Disorder**, European Journal of Molecular & Clinical Medicine, 7(11), 2020, (Indexed in Scopus).
- 5) Karpagam C, Gomathi S, **An Experiment on Logistic Regression Analysis to Detect Autism Spectrum Disorder**, IEEE Xplore on 10th May 2022 DOI: 10.1109/ICEEICT53079.2022.9768505. (Indexed in Scopus)
- 6) Karpagam C, Gomathi S, **Autism Detection using Machine Learning Approach: A Review**, Machine Intelligence and Smart Systems Pg. No: 179–197 part of Algorithms for Intelligent Systems, Springer, Singapore Print ISBN: 978-981-16-9649-7 Online ISBN: 978-981-16-9650-3 on 24th May 2022. DOI: https://doi.org/10.1007/978-981-16-9650-3_14
- 7) Karpagam C, Deepa C, **Autism Detection with Facial Expression using a Modified Convolutional Neural Network**, Stochastic Modelling and Computational Sciences, ISSN: 2752-3829, Volume 3, No. 2 December 2023, Pg. No: 670-677.
- 8) Karpagam C, Deepa C, **Identifying Optimal Feature Set for Improved Autism Classification Using Machine Learning Techniques**, International Journal of Engineering Trends and Technology, ISSN: 2231-5381, Volume 72 Issue 4, April 2024, Pg. No: 306-314 DOI: <https://doi.org/10.14445/22315381/IJETT-V72I4P131> (Indexed in Scopus)

- 9) Karpagam C, Deepa C, **Detection of Autism Spectrum Disorder in Eye Tracking using Hybrid Machine Learning and Deep Learning Technique**, IEEE Xplore on 24th October, 2024, DOI:10.1109/ICOSEC61587.2024.10722383 (Indexed in Scopus) Conference paper published entitled “Cyberbullying Detection using Machine Learning Models” in the Journal of Information Technology and Digital World in December 2024, Pg. No. 362-372, Volume-6, Issue-4, DOI:[10.36548/jitdw.2024.4.004](https://doi.org/10.36548/jitdw.2024.4.004)

Books/ Book Chapters Publication

- 1) **Edge Intelligence to Smart Management and Control of Epidemic**, Reconnoitering the Landscape of Edge Intelligence in Healthcare, Apple Academic Press, ISBN: 9781003401841, Edition 1, April 2024, DOI: 10.1201/9781003401841-13
- 2) **Artificial Intelligence for Bio-Inspired Security**, Bio-Inspired Computational Paradigms, Chapman and Hall/CRC Press, ISBN: 9781003248545, Edition 1, May 2024, DOI: <https://doi.org/10.1201/9781003248545>
- 3) **Leveraging machine learning models for intelligent hazard management**, AI for Climate Change and Environmental Sustainability, CRC Press, ISBN: 9781003452393, Edition 1, July 2024, DOI: <https://doi.org/10.1201/9781003452393>

Presentations in Conference/ Seminar

- 1) **A Study of Mobile Cache Replacement Policies**, National Conference, Kumaraguru College of Technology, Coimbatore on 27-Mar-2015.
- 2) **A Study on Mobile LBS based on User Preferences**, 3rd International Conference on Computer Applications and Information Technology, Hindusthan College of Arts and Science, Coimbatore on 11-Mar-2016.
- 3) **Comparison of K-Means and KNN Algorithm in Data Mining**, International Conference on Recent Advancements in Information Technology, Science & Engineering (ICRAITSE – 17), A.P.C. Mahalaxmi College for Women, Thoothukudi on 14-Dec-2017 to 15-Dec-2017.

- 4) **The Importance of Mobile Location Based Services Based on User Preferences**, International Conference on Research Trends in Computing Technologies (ICRTCT – 18), Dr. N. G. P. Arts and Science College, Coimbatore on 9-Aug-2018 to 10-Aug-2018.
- 5) **Embedding User Preferences with Spatial Keyword Query Processing**, International Conference on Recent Trends in Engineering Technology and Management, Coimbatore Institute of Engineering and Technology, Coimbatore on 29-Mar-2019 to 30-Mar-2019.
- 6) **Predictive Analytics for Efficient Decision Making in Personnel Selection**, National Conference on Advanced Computing Sciences, (NCACS 2023), Dr.N.G.P.Arts and Science College on 16-Mar-2023.
- 7) **Comparative Study of Machine Learning Approaches for Airline Reviews**, International Conference on Computational Intelligence and Communication Technologies, (ICCICT 2024), Dr.N.G.P.Arts and Science College on 4-Jan-2024.
- 8) **Exploratory Data Analysis on Recommendation System Using Machine Learning Methods**, International Conference on Computational Intelligence and Communication Technologies, (ICCICT 2024), Dr.N.G.P.Arts and Science College on 4- Jan-2024.
- 9) **A Comprehensive Study on Predicting Social Anxiety using Classification Techniques**, 2025 Second IEEE International Conference for Women in Engineering (INCOWOCO 2025), G H Raison College of Engineering and Management, Pune, Maharashtra, India during 14-15 November, 2025.

Participation in Conference/Seminar

- 1) **19th ISTE TN & P Section Annual Convention** for Faculty Members of Engineering Colleges – 2016 on 02-Dec-2016 to 03-Dec-2016.
- 2) **Grace Hopper Conference (GHC) for Women in Computing in India**, Anita Borg Institute at Bangalore from 07-Dec-2016 to 09-Dec-2016.

Participation in Faculty Development Programme

- 1) **IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell**, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28-Apr 2020 to 22-May-2020.

- 2) **Digital Teaching Techniques**, ICT Academy from 3-Aug-2020 to 8-Aug-2020.
- 3) **Cancer Prediction using Machine Learning**, Wisecorner Laboratories Pvt Ltd & Crescent Innovation & Incubation Council, Chennai on 16-Aug-2020.
- 4) **Deep Learning using Medical Data**, Finland Labs (A Unit of Revert Technology Pvt. Ltd.) during 7-Jun-2021 to 11-Jun-2021.
- 5) **Research Methodology and Pedagogy for Tertiary Education**, Dr. N. G. P. Arts and Science College during 15-Jun-2021 to 21-Jun-2021.
- 6) **Teaching Efficacy**, St. Joseph University, Nagaland and Special Minds, between 14-Feb-2022 to 27-Feb-2022.
- 7) **Achieving Excellence through Self Awareness: Upbeat your Life Skills**, Scientific Research Association from 26-Jun-2022 to 30-Jun-2022.
- 8) **Microsoft Power BI Data Analyst Associate**, ICT Academy of Tamil Nadu at Kumaraguru College of Technology from 5-Dec-2022 to 9-Dec-2022.
- 9) **Outcome Based Education**, Center for Professional Development, Dr. NGP. ASC College, during 17-Jun-2023 to 21-Jun-2023.
- 10) **Empowering Education for Innovation – A NEP Perspective**, Center for Professional Development, Dr. NGP. ASC College, during 30-Jun-2023 to 4-Jul-2023.
- 11) **Android Basics with Compose**, ICT Academy of Tamil Nadu from 19-Feb 2024 to 23-Feb-2024.
- 12) **Outcome Based Education and Application of Generative AI in teaching and Research**, Gauhati University, Assam during 17-Apr-2024 to 24-Apr-2024.
- 13) **Innovative trends in Artificial intelligence for teaching and research**, Consortium of Higher Educational Institutions for Research and Development (CHIRD) from 27-Jan-2025 to 31-Jan-2025.
- 14) **Business Intelligence & Analytics**, Faculty Development Programme organized by NPTEL-AICTE, Funded by Ministry of HRD, Govt. of India during Jan to Apr 2025.

Participation in Workshop

- 1) **Turnitin Online on Campus**, Guru Nanak Institute of Management Studies, New Delhi on 4-May-2020.
- 2) **Outcome Based Education**, IPSR Solutions Limited, on 4-Mar-2023.

- 3) **Leveraging Generative AI for Teaching Programming Courses**, NPTEL, on 10 to 11 & 17 to 18-Jun-2023.
- 4) **21st Century Teaching and Learning Skills**, NPTEL, IIT Madras, on 15-Mar-2025.
- 5) **Data Science for Social Impact**, NPTEL Stars, SAC Auditorium, IIT Madras on 6-Jul-2025.
- 6) **Virtual Lab**, One-Day Workshop organized by Dr.N.G.P Arts and Science College, Coimbatore. in collaboration with Amrita Virtual Labs, Amrita Viswa Vidyapeetham, Kollam on Tuesday, 24-Jun-2025.
- 7) **Code-to-Carreers**, 5 Days Faculty Development Programme organized by Kamaraj College of Engineering and Technology, Madurai during 28-Jul to 1-Aug 2025.
- 8) **Career Development: Grow Your AI Skills**, online workshop organized by NPTEL, IIT Bombay during Aug - Dec 2025.
- 9) **Large Language Model in Generative AI with Research and Industry Applications**, online workshop organized by Vellore Institute of Technology, Vellore on 30 Oct-2025.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Indian Society for Technical education	Life-time	-

Awards / Honors

Awards / Honors	Agency / Institute	Year
NPTEL Discipline Star	NPTEL	2025
NPTEL Domain Certificate - Data Science	NPTEL	2025