

Name :Dr. K.Brindha
Designation :Assistant Professor
Department : Information Technology
Qualification :MCA.,M.Phil.,Ph.D.,
Experience : Teaching -16 Years 9 Months
Research : 13 Years
Area of Specialization(s): Machine Learning | Data Science| NLP
Email(Official ID) : k_brindha@psgrkcw.ac.in
No.of M.Phil Scholars awarded:7



Academic Qualifications

Degree	Institution/UniversityName	Yearof Graduation
Ph. D	NGM College,Pollachi	2025
M.Phil(CS)	Bharathidasan University	2008
MCA	Bharathidasan University	2004
B.Sc.	Government Arts College,Karur	2001

AdditionalQualifications

Certification	AreaofSpecialization	Institution/University/Agency Name	Year
NPTEL Elite Certification	Python Programming	NPTEL	2025
NPTEL Elite Certification	Soft Skills & Personality Development	NPTEL	Jul-Sep 2023
Coursera Certifications	30 courses		

Research Publications

A. Scopus-Indexed Journal Publications

1. S. Thilagavathi, S. Ahamed Johnsha Ali, S. Lashmidevi, & K. Brindha (2020). *Mammogram Pre Processing and Data Manipulation Using Novel Threshold Based Pre Reduction Technique*. International Journal of Recent Technology and Engineering (IJRTE), 8(6), 1520–1524. DOI: 10.35940/ijrte.F7803.038620. (Scopus Indexed)
2. Brindha, K., & Ramadevi, E. (2021). *Current Challenges and New Directions in Sentiment Analysis on Web Based Media Information*. Design Engineering, Issue 8, 14959–14964. (Scopus Indexed)
3. Brindha, K., & Ramadevi, E. (2022). *Weight Based Pre-Processing Algorithm (WBPA) for Data Pre-Processing in Sentiment Analysis*. Journal of Pharmaceutical Negative Results, 13(10), 1137–1148. (Scopus Indexed)
4. Brindha, K., & Ramadevi, E. (2023). *Twitter Sentiment Analysis for Feature Extraction Using Support Vector Machine (SVM) with TF-IDF*. Journal of Survey in Fisheries Sciences, 10(1), 3575–3583. DOI: 10.53555/sfs.v10i1.1575. (Scopus Indexed)

5. Brindha, K., & Ramadevi, E. (2023). *Twitter Data Feature Selection Using Enhanced Genetic Algorithm*. Tuijin Jishu/Journal of Propulsion Technology, 44(4), 7738–7746. DOI: 10.52783/tjjpt.v44.i4.2670. (Scopus Indexed)

B. Web of Science Publications

6. Brindha, K., Deeraj, G. R., & Sriswetha, S. (2023). *Sentiment Analysis: An Approach Using Deep Learning with Linguistic Knowledge*. Indian Journal of Natural Sciences, 14(81), 64972–64977. ISSN: 0976-0997. (Web of Science)

7. Brindha, K., Thomas, J., & Shankar, P. (2024). *Robust Machine Learning for Anomaly Detection in Cyber Security*. Indian Journal of Natural Sciences, 15(85), 3947–3959. ISSN: 0976-0997. (Web of Science)

C. IEEE International Conference Publication

8. Brindha, K., Subha, V., Nathiya, P., Vaishnavi, A., Gayathri, R., & Eldho, K. J. (2026). *A Multimodal Explainable Deep Learning Approach for E-Commerce Recommendation and Behaviour Prediction*. 2026 International Conference on Visual Analytics and Data Visualization (ICVADV), IEEE, 810–815. DOI: 10.1109/ICVADV67766.2026.11470487. (IEEE International Conference, Scopus Indexed)

D. Other International Journal Publications

9. A. Felicia & K. Brindha. (2013). *Randomized Geographic Routing with Guaranteed Delivery and Low Stretch*. International Journal of Science and Research (IJSR), 2(10), 15–19. Paper ID: 21091304. ISSN: 2319-7064. DOI: 10.21275/21091304. (International Journal) ([IJSR](#))

10. K. Poorani & K. Brindha. (2013). *Data Mining Based on Principal Component Analysis for Rainfall Forecasting in India*. International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), 3(9). (International Journal) ([IJARCSSE](#))

11. P. Anbu Karthick & K. Brindha. (2013). *EDCD Method for Discovering Connectivity Disruption in WSN*. International Journal of Science and Research (IJSR), 2(11), 433–435. Paper ID: 25111301. ISSN: 2319-7064. DOI: 10.21275/25111301. (International Journal) ([IJSR](#))

12. K. Brindha & Leelavathi (2016). *PSO Based Entropy Optimized BOW for Information Retrieval*. International Journal of Modern Trends in Engineering and Science (IJMTES), 3(11). ISSN: 2348-3121. (International Journal)

13. K. Brindha (2016). *A Survey on End-to-End Multiservice Delivery*. International Journal for Research in Science, Engineering & Technology (IJRSET), 3(11), 68–74. ISSN: 2394-739X. (International Journal)

14. K. Brindha (2016). *End-to-End Multiservice Delivery in Selfish Wireless Networks under Distributed Node-Selfishness Management*. International Journal of Computer Science Engineering and Technology (IJCSET), 2(5), 55–64. ISSN: 2455-9091. (International Journal)

15. R. AlaghuKarthiKeyan & K. Brindha. (2017). *Genetic Algorithm Based Text Categorization Using K-NN Method*. International Journal of Computer Science Trends and Technology (IJCST), 5(2). (International Journal)

16. K. Manjula Devi & K. Brindha. (2017). *REAS – Robust and Efficient Authentication Scheme for Secure Healthcare*

System in Body Area Network. International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), 6(11). DOI: 10.17148/IJARCCE.2017.61124. (International Journal) ([IJARCCE](#))

17. K. Brindha & Divya S. (2020). *Nano Technology and Manipulation of Nano Meter in Digital Aspects*. International Journal of Research in IT and Management (IJRIM), 10(2). ISSN: 2231-4334. (International Journal) ([EuroAsia Pub](#))

18. N. Aiswarya & K. Brindha. (2020). *Study on Cyber Security Towards Issues of Cyber Threats and Challenges*. International Journal of Research in IT and Management (IJRIM), 10(1). ISSN: 2231-4334. (International Journal) ([EuroAsia Pub](#))

19. S. Archana & K. Brindha. (2020). *E-Voting Towards Secured Blockchain*. International Journal of Research in IT and Management (IJRIM), 10(3). ISSN: 2231-4334. (International Journal) ([EuroAsia Pub](#))

20. Brindha, K., & Ramadevi, E. (2023). *A Novel Hybrid Approach for Twitter Sentiment Analysis in Machine Learning*. Technische Sicherheit (Technical Security), 23(8). (International Journal)

21. Balakumar, N., Amsaveni, R., Brindha, K., Sasikala Devi, S., Manoharan, N., Gopalsamy, M., & Sivakami, L. (2024). *Advanced Transfer Learning Strategies for Improving Deep Learning Model Efficiency and Accuracy*. International Journal for Research in Applied Science & Engineering Technology (IJRASET), 12(10). DOI: 10.22214/ijraset.2024.64911. (International Journal)

22. Brindha, K. (2019, October 22). *Technologies of Network Security*. *Journal of Emerging Technologies and Innovative Research (JETIR)*, 6(6). ISSN: 2349-5162. UGC Approved (Journal No: 63975). Impact Factor: 5.87. (International, UGC Approved.) Weblink: <http://www.jetir.org/view?paper=JETIR1907L48>

23 Brindha, K. (2019, March). *Big Data Analytics and Web Based Data Mining*. *Iconic Research and Engineering Journals (IRE Journals)*, 2(9). ISSN: 2456-8880. (International)Journal. Paper ID: 1701031. Website: www.irejournals.com

24. Brindha, K., & Bakyalakshmi, V. (2026). *Integrating Clustering and Adaptive SVM Ranking: The E-SVM–CRFE Approach for Robust Cyber Threat Detection*. Hayat, 15(1). ISSN: 1735-2215. (International Journal)

E. National Journal Publication

25. Brindha, K. (2025). *Exploratory Data Analysis (EDA)*. IAPQR Transactions, 30, January–June 2025. ISSN: 0970-0102. (National Journal)

Patent

S.No	Name of the Faculty	Title of the Invention	Application No.	Date of Filing	Publication Date
1.	K.Brindha et al.	Supervised ML Technique for Efficient Management of Cloud Resources	202241053590A	19/9/2022	14/10/2022

2.	K.Brindha et al.	<i>Inventory Management Evaluation and Planning with Machine Learning</i> Journal No.: 47/2024	202441088153 A	14.11.2024	22.11.2024
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Book/Book ChapterPublished

1. *An Overview of Software Testing*. Authors: D. Gokila, K. Brindha, C. Keerthana, V. Sangeetha.

Publisher: Coimbatore Institute of Information Technology. ISBN: 978-93-91347-65-9, 2023

2. *Book Chapter : Exploring Artificial Intelligence Trends Emerging Across Multiple Domains*.

Authors: D. Vimal Kumar, Sengaliappan Mariappan, Nivas S.

Publisher: Prime International Publication (PIP). ISBN: 978-93-6010-347-7. — 2024–2025

Acted as a Resource Person

1. Delivered guest lecture on ' Math Skills in Data Science ' in Sri Venkateswara College of Arts & Science,Erode on 7.06.2021

Awards/Recognitions

S.No	Awards/Honours	Agency/Institute	Year
1.	University II Rank-B.Sc CS	Bharathidasan University	2001
2.	Best Faculty Award	Sri Krishna Adithya College of Arts & Science,Coimbatore	2024
3.	Star Performer Award	Sri Krishna Adithya College of Arts & Science,Coimbatore	2023
4.	Appreciation on Contribution to College development activities	Sri Krishna Adithya College of Arts & Science,Coimbatore	2019

Paper Presentations in Conferences

1. *Improved CNN Classifier for Sentiment Analysis on Twitter Reviews*. International Conference on Finance & Business Analytics (ICFBA 2021), CHRIST University, Pune. — May 21, 2021
2. *Deep Convolutional Neural Networks for Sentiment Analysis*. Virtual Conference, KG College of Arts & Science in collaboration with Universiti Malaya. — May 22, 2021
3. *Current Challenges and New Directions in Sentiment Analysis on Web-Based Media Information*. ICCIS'21, Sri Krishna Adithya College of Arts and Science, Coimbatore. — August 25–26, 2021
4. *IoT-Based Door Access System for Visually Impaired People*. ICCIS'21, Sri Krishna Adithya College of Arts and Science, Coimbatore. — August 25–26, 2021

5. *Cybersecurity and Digital Forensics for Society*. National Conference, PSGR Krishnammal College for Women, Coimbatore. — October 19–20, 2022
6. *AI for Smart Cities and Urban Development*. International Conference on The Future of Work: Redefining Business Management in the Age of Automation & AI, Adarsh Institute of Management & IT, Bengaluru. — October 6, 2023
7. *AI in Education: Understanding the Potential Benefits of ChatGPT in Promoting Teaching and Learning*. International Conference on Navigating Digital Transformation (NDTCOG-2023), Suguna College of Arts and Science, Coimbatore. — October 19–20, 2023
8. *AI in Entertainment*. International Conference, Suguna College of Arts and Science, Coimbatore. — October 20, 2023
9. *Robust Machine Learning for Anomaly Detection in Cyber Security*. 2nd International Conference on Recent Trends in Computer Science and Data Analytics (ICRTCSDA'24), KPR College of Arts, Science & Research, Coimbatore. — February 2, 2024
10. *Chatbot-Human Interaction in Information Exchange on Current Affairs*. National Symposium on Advanced Materials and Technology for Future (NSAMTF-2024), Sri Ramakrishna College of Arts and Science, Coimbatore. ISBN: 978-93-34008-84-5. — February 8–9, 2024
11. *Machine and Deep Learning in the Field of Cybersecurity*. National Symposium on Advanced Materials and Technology for Future (NSAMTF-2024), Sri Ramakrishna College of Arts and Science, Coimbatore. ISBN: 978-93-34008-84-5. — February 8–9, 2024
12. *Unveiling Insights through Exploratory Data Analysis: Techniques, Tools, and Applications*. AICTE-VAANI International Conference on Emerging Trends in Smart Urban Development and Intelligent Mobility, Rathinam College of Arts and Science, Coimbatore. — August 6–7, 2025
13. *Smart Urban Planning and Sustainable Living in Tamil Nadu*. AICTE-VAANI International Conference on Emerging Trends in Smart Urban Development and Intelligent Mobility, Rathinam College of Arts and Science, Coimbatore. — August 6–7, 2025
14. *Human AI Symbolic Intelligence*. International Conference on Digital Marketing and Data Mining, Kangeyam Institute of Commerce, Tirupur. — December 16, 2025
15. *Synthetic Data as a Catalyst for Data-Centric AI*. International Multidisciplinary Conference, PSG College of Arts and Science, Coimbatore. — February 13, 2026
16. *Multimodal Explainable Deep Learning Approach for E-Commerce Recommendation and Behaviour Prediction*. 2nd International Conference on Visual Analytics and Data Visualization (ICVADV-2026), IEEE & Francis Xavier Engineering College, Tirunelveli. — February 24–26, 2026

Indexing and Citations

Platform	Total Citations	H-Index	i10-Index
Google Scholar	45	4	1
Scopus	33	3	1
Overall (combined)	78	5	2

Membership in Professional Bodies

Name of the Professional Body	Duration
IAENG	Lifetime

Participation in Faculty Development Programme

1. *R Programming*. Faculty Development Programme, Spoken Tutorial Project, IIT Bombay, Sri Krishna Arts and Science College, Coimbatore. — April 19–24, 2020
2. *Emotional Intelligence*. Three-day Online FDP, KG College of Arts and Science, Coimbatore. — April 28–30 & May 2, 2020
3. *Art of Writing Research Articles in Hi-Indexed Journals*. FDP, Nehru Arts and Science College, Coimbatore. — April 29–30, 2020
4. *Moodle Learning Management System*. FDP, Kaypeeyes College of Arts and Science, Kotagiri, in association with IIT Bombay. — April 29–May 1, 2020
5. *Industry 4.0 – The New Normal*. FDP, VET Institute of Arts and Science, Erode. — May 1, 2020
6. *Web Design Course for Entrepreneurship – Phase I*. Ten-day FDP, Bharathiar University, Coimbatore. — October 19–31, 2020
7. *Python Programming*. Ten-day FDP, Bharathiar University, Coimbatore. — February 15–26, 2021
8. *Recent Trends and Challenges in Data Science*. AICTE-sponsored STTP, Hindusthan College of Arts and Science, Coimbatore. — January 18–23, 2021
9. *Research Methodology*. Seven-day FDP, KG College of Arts and Science, Coimbatore. — June 17–24, 2021
10. *Artificial Intelligence & Machine Learning*. Seven-day International FDP, PPG College of Arts and Science, Coimbatore. — June 28–July 5, 2021
11. *Zotero: Reference Management Tool*. FDP, Sri Krishna Adithya College of Arts and Science, Coimbatore. — July 15, 2021
12. *Advanced Computing Technologies*. One-week FDP, NGM College, Pollachi. — July 25–31, 2022
13. *Research Tools and Methodologies*. Five-day International FDP Webinar Series, Sri Krishna Adithya College of Arts and Science, Coimbatore. — June 7–13, 2023
14. *Machine Learning for Data Science*. Five-day FDP, Sri GVG Visalakshi College for Women & KG College of Arts and Science, Coimbatore. — July 17–21, 2023
15. *Innovative Research Opportunities & Applications of Data Science in Industry 5.0 Paradigm*. Two-week International FDP, SRM Institute of Science & Technology, Ramapuram. — August 18–31, 2023
16. *Research Toolbox Reloaded: Amplify Your Scholarly Endeavours*. Five-day International FDP, Hindusthan College of Arts and Science, Coimbatore. — August 21–25, 2023
17. *Latest Trends & Techniques in Software Engineering: An Industry Perspective*. Seven-day International FDP, CHRIST University, Bangalore. — January 20–27, 2024
18. *Data Analytics using Power BI*. FDP, Microsoft–SAP–Tamil Nadu Skill Development Corporation (TechSaksham Program). — January 10–12, 2024
19. *Workshop on Microsoft Power BI Data Analyst*. FDP (ICT Academy), Sri Ranganathar Arts and Science College, Coimbatore. — December 2–6, 2024
20. *Generative AI in Shaping Industry 6.0*. AICTE Training and Learning (ATAL) Academy FDP, Kongu Arts and Science College, Tamil Nadu. — September 1–6, 2025
21. *Evolving Landscape of Data Science: Current Trends & Patterns*. Five-day FDP, Sri Krishna Adithya College of Arts and Science, Coimbatore. — September 23–27, 2025
22. *AI-enabled Pedagogy on GenAI and Agentic Tools*. FDP, Sri Krishna College of Engineering and Technology, Coimbatore. — February 11, 2026
23. *Generative AI & Agentic Tools: Concepts and Demos*. Six-day FDP, Sardar Vallabhbhai National Institute of Technology (SVNIT), Gujarat Section IEEE, partnered with Pantech Solutions. — February 16–21, 2026
24. *Artificial Intelligence to Synthetic Intelligence*. Seven-day FDP, Hindusthan College of Arts and Science, Coimbatore. — July 25–August 1, 2026

Participation in Workshops

1. Finishing School Programme. Department of Extension & Career Guidance, Bharathiar University & CIMAT, Coimbatore. — May 2008

2. Managing References & Citations with Mendeley Software. International Workshop, Arya P.G. College, Panipat. — July 10, 2021
3. Fine Tuning Research Planning using Elsevier Tools: Science Direct, Scopus and Mendeley. National Workshop (online mode), K.J. Somaiya College of Science and Commerce, in association with Elsevier. — April 25, 2020
4. Gaining Mastery over the Art of Keeping Students Engaged. One-Day Online Workshop, IQAC Cell, Sri Balaji Arts & Science College (Kolapakkam, Vandalur, Chennai). — January 3, 2025