

Name : Dr. K. Banuroopa
Designation : Assistant Professor
Department : Information Technology
Qualification : MCA, M.Phil., Ph.D.
Experience : Teaching - 18 Years | Research – 14 Years
Specialization: Data Mining, Machine Learning, Cyber Security
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Academic Qualifications

Degree	Branch	Institution / University Name	Year
Ph.D.	Computer Science	Karpagam Academy of Higher Education	2024
M.Phil.	Computer Science	PSG College of Arts and Science	2004
MCA	Computer Applications	Bharathidasan University	2002
B.Sc.	Computer Applications	PSG College of Technology	1997

Additional Qualifications

Dip./ Cert.	Area of Specialization	Institution / Agency Name	Year
Certificate	Database Management Systems	NPTEL	2018
Certificate	Python for Data Science	NPTEL	2020

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	-
M. Phil.	1	-

Research Publications (Indexed)

International

- Banuroopa, K., & Priyaa, D. S. (2022). **A novel voiceprint using ensemble MelChromagram for speaker recognition**, International Journal of Health Sciences, 6(S4),8043–8056. <https://doi.org/10.53730/ijhs.v6nS4.10404> (Scopus)

- Banuroopa, K., & Shanmuga Priyaa, D. (2021). **MFCC-based hybrid fingerprinting method for audio classification through LSTM**, International Journal of Nonlinear Analysis and Applications, 12(Special Issue), 2125-2136. (Web of Science)
- Priya, D. S., Kavitha, B., Kumar, R. N., & Banuroopa, K. (2010). **Improvising Bayes net classifier using various feature reduction methods for spam classification**. Dept. of Information Technology, 1(2). (Google Scholar)

National

- Banuroopa, K., & Priyaa, D. S. (2020). **An Introduction to Wireless Acoustic Sensor Networks And Its Applications**, Karpagam JCS,14(6),290-293 (Google Scholar)
- Banuroopa, K., & M. Mohankumar (2019). **An Introduction to Big Data and Its Application**, Karpagam JCS,13(2), 49-54 (Google Scholar)
- Banuroopa, K., &M. Mohankumar (2018). **Cyber Crime Threads on Mobile Devices**, Karpagam JCS,12(5),1-5(Google Scholar)
- K. Banuroopa and Dr. Mohankumar (2018) **Survey on mobile device Cyber Crime**, International Journal of Research in Electronics and Computer Engineering Vol No. (6) Issue No:3, PP no1-3 (Google Scholar)
- Banuroopa, K., & Priyaa, D. S. (2017). **A Study on Audio file formats**, Karpagam JCS,12(1),321-324 (Google Scholar)
- Banuroopa, K., & Priyaa, D. S. (2016). **Audio Fingerprinting -What, Why and How**, Karpagam JCS,11(1),9-14 (Google Scholar)

Other Publications: International / National Journals

- K.Banuroopa,(2022) **Ride Sharing Systems**, International Journal of Intellectual Advancements and Research in Engineering Computations, 10(2), 134-137
- K.Banuroopa, N.Manoj bala, (2021).**SYBILBELIEF: A Semi-Supervised Learning Approach for Structure Based SYBIL Detection**, International Journal of Research Publication and Reviews, 2(7), 949-951.
- K Banuroopa, D Shanmuga Priyaa, (2020). **A comparative Analysis of Data mining Algorithms for Diagnosing Parkinson's Disease using Voice Attributes**, Purakala, 55(31), 68-73.

Book/Book Chapter Publications

- **Machine Learning with Python: A Guide for Data Scientist and Analyst**, Banuroopa, K., Murali Krishna K Dr. D. Shanmuga Priyaa Dr. A. Sumaiya Begum, Scientific International Publishing House, India,2023, ISBN: 9789357575782
- **Green and Sustainability in Software Development Lifecycle Process**. Banuroopa, K., Muthu, M., & Arunadevi, S. (2019). Sustainability Assessment at the 21st Century, 27(63). (Google Scholar)
- **Impact of Artificial Intelligence in Designing of 5G**, Banuroopa, K, K Maheswari; Mohankumar. M; in Smart and Sustainable Approaches for Optimizing Performance of Wireless Networks: Real-time Applications, Wiley, 2022, pp.33-50, doi: 10.1002/9781119682554.ch2. (Scopus Indexed)

Conference / Seminar / Workshop Organized

- Committee Member, National Conference on “Emerging Technologies – Robotics and IoT” (NCET ’20), Karpagam Academy of Higher Education, 28-Feb-2020.
- Committee Member, 6 th National Conference on “Recent Trends and Advances in the Field of Information and Technology” (NCIT ’18), Karpagam Academy of Higher Education 28-Sep-2018
- Organizing Secretary, National Conference on “Emerging Trends in Computing and Communication” (NCCC’17), Karpagam Academy of Higher Education, 17-Feb-2017.

Member in BoS

- Department of Computer Science, Karpagam Academy of Higher Education, Coimbatore, 2018-2021

Membership in Professional Bodies

Name of the Professional Body	Nature of Membership	Duration
Computer Society of India	1 Year	2020 - 2021