

## Faculty Profile



**Name** : A. KUMAR KOMBALAIYA  
**Designation** : Associate Professor  
**Address** : 4SG, Jain Vengateswara Apartment  
Ramanujam Nagar,  
Uppalipalayam (PO),  
Coimbatore – 641 015.

**Contact Number** : 98 94 83 80 90

**Email Id** : kumar\_kombaiya@rediffmail.com

**Date of Joining in Collegiate Education** : 09/07/2009

**Date of Joining in the Present College** : 16/07/2010

**Academic Profile** :

Degree	Institute /College	University	Period
B.Sc	Aditanar college , Tiruchendur	Madurai Kamaraj University	1986
MCA	Alagappa University	Alagappa University	1990
M.Phil	Bharathidasan University	Bharathidasan University	2005
Ph.D	Alagappa University	Alagappa University	2016

### Teaching Experience

- i) **Total** : 32 years, 5months.  
ii) **UG** : 32 years, 5months.  
iii) **PG** : 28 years, 1month.

Name of the College	Position held	Period
Aditanar College	Lecturer	1991-1993
SNR sons college	Assistant Professor and HEAD	1993-2009
Govt Arts College for Women Krishnagiri-1	Assistant Professor	2009-2010
Chikkanna Govt Arts College- Tirupur	Associate Professor	2010-till date

**Honors and Research Awards** :-

**Field of Interest**

- i) Teaching : Computer Science  
 ii) Research : Data Mining  
 iii) Proficiency in Instrumentation :-

**Research Guidance**

**Guidance Number**

:M.Phil (15681/A2/2005-13/1/2006)  
 Ph.D(15/12/A2/2017-13/02/2017)

(If have more than one university, given them against University name)

S.No	M.Phil/Ph.D	Name of the Student	Thesis Title	Completed /Ongoing
1.	M.Phil	R.ANITHA	Efficient subtree based data stream cluster and outliers	Completed
2.	M.Phil	R.SATHISH KUMAR	Interpreting the public sentiment variations on twitter	Completed
3.	M.Phil	S.GNANASOUNDARI	Efficient routing in delay tolerant network based on secure fuzzy spray decision algorithm	Completed
4.	M.Phil	P. MUTHUKUMAR	Prediction and analysis of stock market trading using enhance support vector machine classifier	Completed
5.	M.Phil	C. VADIVELMURUGAN	Location prediction and pupation in mobility communication network	Completed
6.	M.Phil	F. LEENA VINMALAR	A novel cancer gene search model and classification using GPSO- BPNN	Completed
7.	M.Phil	A. GOMATHI JAYAM	Enhance ADA-Boost approach for classification of cancer gene expression	Completed
8.	Ph.D	GANESHAN A	An efficient Intrusion detection using enhanced newton – raphson in Mobile Ad-hoc network	completed
9.	Ph.D	PREMA K	A Semi supervised feature selection of classification using deep learning approach for microarray gene expression cancer dataset	completed
10.	Ph.D	VIDYA B		Ongoing

11.	Ph.D	LEENA VINMALAR F	An enhanced convolutional neural network ensemble classification for lung cancer prediction	completed
12	Ph.D	PRAKASH K		Ongoing
13	Ph.D	ANNAPOORNI S		ongoing
14	PhD	UMA MAHESHWARI P		ongoing

### Funded Projects

**Membership in Professional Bodies** : Nil

### Research Publications

i) **Research Papers** : 29 (Annexure- I)

**National and International Conferences** : (Annexure – II)

i) **Participated & Paper Presented** : 5

ii) **Poster Presented** :-

### Conference/ Seminars Organized

**Workshop attended** :-

**Resource Person/Invited Lectures** :-

Course	University/Institute	Subject	Period
Orientation Course	Madras University	-	09/07/2009-05/08/2009
Refresher Course	Bharathiar University	Computer Science	15/09/2010-05/10/2010
Refresher Course	Bharadhidasan University	Computer Science	13/11/2015-03/12/2015
Refresher Course	Bharathidasan University,	Computer Science	06/12/2019 -19/12/019
Refresher Course	TLC-Ramanujan college, university of Delhi	Computer Science	17/05/2021-31/05/20221

### Academic Activities

i) **Subject Handled** : Computer Science Subjects

ii) **Class Advisor** : UG & PG

iii) **Special Coaching** : -

iv) **Student Community Beneficial Activities** : -

v) **Co- curricular and extracurricular activities** : Computer Learning Programme.

## Professional Activities

- i) **Reviewer** :-  
ii) **Board of Studies/UR**

S.No	Name of the Professional Body	Member ship Detail with Number
1.	Board of studies in Computer Science(PG) Bharathiar University	Chairman (PG)
2.	Board of studies in Computer Science(UG) Bharathiar University	Member (UG)
3.	Ramakrishna College of Arts and Science Coimbatore	Member (BCA)

iii)

- iv) **Examiners/ Scrutiny** : Bharathiar, Bharathidasan,  
Madurai Kamarajar, Alagappa,  
Madras Universities

- v) **Senates/Syndicate** :-

**National / International Collaborators** :-

## Annexure-I

### Research Publications

1. Dr.A.KumarKombaiya- IEEE International Conference on Computational Intelligence and Computing Research ,pp.700-704-ISBN:9781-4799."Efficient Analysis of Pharmaceutical Compound Structure Based on Pattern Matching Enhanced Algorithm in Data Mining Techniques"-on December 2014.<https://ieeexplore.ieee.org/document/7238456>

2. r.A.KumarKombaiya- IEEE International Conference on Computational Intelligence and Computing Research ,pp.700-704-ISBN:9781-4799."Efficient Analysis of Pharmaceutical Compound Structure Based on Pattern Matching Enhanced Algorithm in Data Mining Techniques"-on December 2014.<https://ieeexplore.ieee.org/document/7238456>
3. Dr.A.KumarKombaiya-International Journal of Technology Enhancements And Emerging Engineering Research-ISSN:2347-4289."Efficient Routing in Delay Tolerant Network Based Secure Fuzzy Spray Decision Algorithm"-on 2014.<https://www.ijteee.org/final-print/oct2014/Efficient-Routing-In-Delay-Tolerant-Network-Based-On-Secure-Fuzzy-Spray-Decision-Algorithm.pdf>
4. Dr.A.KumarKombaiya-International Journal of Innovative Research in Computer Communication Engineering(IJRCCE),Vol.3-ISSN:3362-3367."Efficient Analysis of Pharmaceutical Compound Structure Based on Enhanced K-means Clustering Algorithm"-on April 2015.[http://www.ijrcce.com/upload/2015/april/68\\_25\\_Efficient.pdf](http://www.ijrcce.com/upload/2015/april/68_25_Efficient.pdf)
5. Dr.A.KumarKombaiya-International Journal of Computer Sciences and Engineering(IJCSE)Vol.3.-pp58-63."Designing a Knowledge Discovery of Clustering Techniques in Pharmaceutical Compounds"-on April 2015.[https://www.ijcseonline.org/pub\\_paper/13-IJCSE-00944.pdf](https://www.ijcseonline.org/pub_paper/13-IJCSE-00944.pdf)
6. Prema.K and Dr.A.Kumarkombaiya ,IJARSE International Journal of Advance Research in Science and Engineering ISSN(O):2319-8354,ISSN(P):2319-8346 Published Paper on "A Survey on use of Data Mining Methods Techniques and Applications"on December 2017
7. A.Ganesan and Dr.A.Kumarkombaiya ,JETIR –IJSART . ISSN:2349-5162, Volume 4,Issue 1,ISSN:2395-1052, Published Paper on "Classification Model for Intrusion Detection "on January 2018.  
<http://ijsart.com/Home/IssueDetail/19501>
8. F.Leenavinmalar and Dr.A.KumarKombaiya –International Journal On Computer Science and Engineering(SSRG-IJCSE)-Special Issue ICCREST-April 2018. –IJETS.ISSN(P):2348-8387,Volume 56,February 2018-Published Paper on

**“Cancer Gene Expression Model An Classification Using Fuzzy Clustering And TSVM-SSRG”**On ,February-2018.

9. F.Leenavinmalar and Dr.A.KumarKombaiya –International Journal On Engineering Technology and Sciences –IJETS.ISSN(P):2241-5381,ISSN(O):Volume 56,February 2018-Published Paper on **“Application of Data Mining Techniques in Early Detection of Breast Cancer”**On ,February-2018.<http://ijettjournal.org/2018/volume-56/number-1/IJETT-V56P208.pdf>
10. A.Ganesan and Dr.A.Kumarkombaiya ,JETIR –Journal of Emerging Technologies and Innovative Research . ISSN:2349-5162, Volume5,Issue 8,ISSN(P):2319- 8346 Published Paper on **“Comprehensive study of Classification model for intrusion detection systems: Review “**on August 2018. <https://www.jetir.org/view?paper=JETIR1808224>
11. V.Shilpa and Dr.A.KumarKombaiya –International Journal of Scientific Research and Development-ISSN:2321-0613.Volume 6.Issue 9,**“Monitoring Air Pollution Tree-Based Routing Scheme For Wireless Sensor Nodes”**on November 2018.<http://ijsrd.com/Article.php?manuscript=IJSRDV6I90126>
12. Prema.K and Dr.A.KumarKombaiya,Published online in journal of computational Information Systems ISSN:1553-9105.Survey on**“An Analytical Investication and Feature selection methods on Microarray Leukemia Data”**on Jan 2019 in UGC journal.
13. F. LeenaVinmalar and Dr. A. Kumar Kombaiya, Published in The International Journal of Engineering Research Technology -IJERT,"ISSN:2278-0181,**Prediction of Lung cancer using Data Mining Techniques"**, January 2019.<https://www.ijert.org/prediction-of-lung-cancer-using-data-mining-techniques>
14. B.Vidhya and Dr.A.Kumar Kombaiya,IJRAR,Volume6,Issue 1,ISSN(E):2348-1269,ISSN(P):2349-5138.**“A Perspective Study on Acute Lymphoblastic Leukemia Detection using Various Image Processing Techniques-**on March 2019. [http://ijrar.org/viewfull.php?&p\\_id=IJRAR19H1088](http://ijrar.org/viewfull.php?&p_id=IJRAR19H1088)
15. F.Leenavinmalar and Dr.A.KumarKombaiya –Oxidation Communication-Book2,ISSN:0209-4541,Published Paper on **“Lung Cancer Diagnosis Using Hybrid Dragonfly Optimization and Radial Basis Neural Network Classification”**- June 2019.(scopus indexed)

16. Prema.K and Dr.A.KumarKombaiya ,Published in The International journal of analytical and experimental model analysis,UGC CARE Approved group-A Journal ISO:7021-2008 Certified IJEMA journal Volume XI,IssueX,October ISSN NO:0886-9367, "**Microarray based Cancer Classification using Clustering Algorithm for Feature Selection Approach**"on October 2019.
17. F.Leenavinmalar, Dr.A.KumarKombaiya(2019),"A Review on Knowledge Mining Approaches In Detecting Lung Cancer Using Datasets", *Science, Technology and Development*. VIII Issue XII DECEMBER 2019.ISSN:0950-0707,(UGC).
18. F.Leenavinmalar, Dr.A.KumarKombaiya(2019),"Boosted Weighted Optimized Convolutional Neural Network Ensemble Classification for Lung Cancer Prediction".(Accepted in Scopus Journal,IJEAT).
19. F.Leenavinmalar, Dr.A.KumarKombaiya(2020),"An Improved Dragonfly Optimization Algorithm based Feature Selection in High Dimensional Gene Expression Analysis for Lung Cancer Recognition "International *Journal of Innovative Technology and exploring Engineering(IITEE)*.Volume-9 Issue-8,June 2020,ISSN:2278-3075,(Scopus Indexed).
20. F.Leenavinmalar, Dr.A.KumarKombaiya(2020),"A Morphological And Hybrid Moth Flame Optimization Based Feed Forward Neural Network For Skin Cancer Detection". *International Research Journal of Modernization in Engineering Technology and science(IRJMETS)*.Volume 02, Issue 11/November 2020,E-ISSN:2582-5208.(International Journal).
21. PREMA.K Dr.A.KUMAR KOMBALYA(2020)"Feature Selection for Micro array Cancer Classification using clustering Algorithms"International Journal of Scientific Research in Computing,Vol2, Issue 1, ISSN 2581-9283,(jan 2020)<http://www.ijsrc.in/issue3.php>
22. PREMA.K Dr.A.KUMAR KOMBALYA(2020) "Feature Selection for Gene Expression using Gaussian kernel Density Estimation based HPCA-ML Algorithm for Cancer Classification",Journal of Xi'an university of Architecture & Technology,ISSN :1006-7930, JXAT JOURNAL, Volume XII, ISSUE VII(july 2020)

23. PREMA.K Dr.A.KUMAR KOMBALAIYA(2021),“Feature Extraction using Kernel Based Fuzzy C-Mean on Cancer Diagnosis”,in Design Engineering Journal,ISSN: 0011-9342 Issue : 8 Pages: 14977-14982,<http://www.thedesignengineering.com/index.php/DE/article/view/6633>
24. F.Leenavinmalar, Dr.A.KumarKombaiya(2021),”Boosted Weighted Optimized Neural Network Ensemble Classification Based Lung Cancer Prediction”. *Indian Journal of Natural Sciences*,Vol.12/Issue 65/April/2021,ISSN:0976-0997.(WEB OF SCIENCE).
25. K. Prakash Krishnan, Dr. A. Kumar Kombaiya, "Literature Review of Using DWHBI Approaches to Predict and Reduce Customer Churn in Telecommunications Industry", *International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT)*, ISSN : 2456-3307, Volume 6 Issue 5, pp. 176-180, September-October 2020. Available at doi : <https://doi.org/10.32628/CSEIT206535> Journal URL : <http://ijsrcseit.com/CSEIT206535>
26. K. Prakash Krishnan, Dr. A. Kumar Kombaiya, "Customer Churn Prediction in Telecom industry using DWHBI Approaches and R Programming", *Turkish Journal of Qualitative Inquiry (TOJQI)*, ISSN : 1309-6591 PP : 4666-4681, Volume 12 Issue 3, May 2021. Journal URL: <https://tojqi.net/index.php/journal/article/view/2128> (Scopus)
27. A.Ganesan and Dr.A.Kumarkombaiya,” An Effective Detection of Malicious node Using Throughput, Packet Delivery Ratio, and Latency”, *Journal of Xi'an University of Architecture & Technology*. ISSN No : 1006-7930, Volume XIII, Issue 9, 2021, <https://app.box.com/s/hko35pbkdt94sfzqiqotaegsrvvd15jxh> (Scopus)
28. Ganesan and Dr.A.Kumarkombaiya,” Impact of malicious Nodes on Packet Dropping, Energy consumption and End-to-End Delay in Wireless Network, *Journal of Xi'an University of Architecture & Technology*. ISSN No : 1006-7930, Volume XIII, Issue 10, 2021, <https://app.box.com/s/2rka0glbgiepkwq9cb505jntur56kcgf>
29. Dr.A.kumar kombaiya K.Prakash Krishnan “customer churn prevention in telecom industry using Dwhbi and Accelerated LR Model “, *journal of optoelectronics laser* 2022 , 1005-00  
86 <http://gdzjg.org/index.php/JOL/article/view/1093>



30. Dr.A.kumar kombaiya. B.vidhya "Acute Lymphoblastic leukemia prediction using fuzzy based mathematical clustering features extraction algorithms" Telematique 2023 <https://www.provinciajournal.com/index.php/telematique/article/view/1167>

## Papers Presentation

1. Prema.K, International Conference on Computing Intelligence and Applications ICCIA 2K17 ISBN 978-1-941505-98-4 Presented paper on “**Artificial Neural Networks: Applications, Issues & Trends in Data Mining**” on 29<sup>th</sup> July 2017 in Dr.SNSRajalakshmi College of Arts and Science.
2. Prema.K and Dr.A.KumarKombaiya, 4<sup>th</sup> International Conference on Computer Applications & Information Technology CAIT 2017 ISBN 978-81-932858-9-3 Published a Paper on “**A Survey on Image Compression Techniques**” on 8 August 2017 in Hindusthan College of Arts and Science.
3. Prema.K and Dr.A.KumarKombaiya, International Conference on Intelligent Computing and Technology ICICT 2017 Presented paper “**A Survey on use of Data Mining Methods Techniques and Applications**” on 8 December 2017 in Sri Ramakrishna College of Arts and Science.
4. Prema.K and Dr.A.KumarKombaiya, International Conference on Research and Innovations in computational Intelligence(RICI 2019) presented paper “**Leukemia data analysis using an K-nearest neighbour classifier with Map reduce framework in Microarray**” on 4 February 2019 in Sri Ramakrishna College of Arts Science for Women.
5. A.Ganesan and Dr.A.Kumarkombaiya,” Discovering network performance and malicious node in DSR Routing Protocol Using network metrics” International conference, on oct, 2021,at NGM college