Personal Details	
Dr. R. Kumar, Ph.D,	
Professor of CSE & Director– CDDA	
Department of Computer Science and Engineering	
Knowledge Institute of Technology, Salem - 637 504. India.	
Mobile: (+91) 9884341010 , (+91) 76039966778	
e-mail: rkumarnkl@gmail.com (P), dircdda@kiot.ac.in (O)	

Areas of Specialization	e- Learning, Assistive Systems
Anna Univ. Supervisor Recognition Ref. Num.	**2840019**

Subjects Taught	
UG	**PG**
Operating Systems	Software Project Management
DBMS	Network and Information Security
Fundamentals of Computer Programming	Advanced DBMS
Software Engineering	
Problem Solving and Python Programming	

Academic Background				
Degree	**Specialization**	**Name of the Institute**	**University**	**Month and Year of Passing**
Ph.D	Information & Communication Engineering	College of Engineering	Anna University, Chennai.	2014
M.Tech	CSE	Shanmuga Arts, Science, Technology and Research Academy	SASTRA University, Tanjore	2005
M.Sc.,	Computer Science	Thanthai Hans Roever College	Bharathidasan University	1998

B.Sc.,	Computer Science	Thanthai Hans Roever College, Perambalur.	Bharathidasan University	1995

Work Experience as on April 2023			
Name of the Institution	**Position**	**From**	**To**
Knowledge Institute of Technology, Salem, Tamil Nadu.	Prof /CSE & Director/CDDA	13.03.2023	Till Date
Rajalakshmi Institute of Technology, Chennai, Tamil Nadu.	Professor & Sr. A.O.	03.01.2022	17.02.2023
Muthayammal Engineering College, Rasipuram, Namakkal. Tamil Nadu.	Professor	01.04.2021	31.12.2021
Dhirajlal Gandhi College of Technology, Salem, Tamil Nadu.	Professor & Dean	07.10.2020	02.02.2021
Rajalakshmi Engineering College, Chennai, Tamil Nadu.	Professor	01.11.2014	13.4.2020
Rajalakshmi Engineering College, Chennai, Tamil Nadu.	Asst. Prof. /AoP	11.06.2007	30.10.2014
Dhanalakshmi College of Engineering, Chennai, Tamil Nadu.	Asst. Prof	03.06.2005	11.05.2007
Annai Mathammal Sheela Engineering College	Lecturer /Asst. Prof	01.07.1998	31.05.2005

Total Experience	24 Years	**Teaching**	24 Years	**Research**	10 Years	**Administration**	3 Years

Research Publications					
Total Number of Publications	**International Journal**	**National Journal**	**International Conference**	**National Conference**	**Total**
	14	1	12	1	28
Recent Publications (Journals)					

1	″**A Systematic Review of Clearance Control in Air Traffic Services**″,**Chapter-13**,Industry 4.0: Research Trends, Challenges and Future of AI in Data Science, CRC Press, Taylor & Francis Group.
2	"**A Systematic Review of Crowd Counting and Monitoring Application using Convolutional Neural Network**", Wutan Huatan Jisuan Jishu Journal, pp 301-306, June 2020. DOI:doi.org/10.37896/ whjj16.06/127
3	"**A Systematic Review of Crime Rate Analysis using Machine Learning**", Journal of Xidian University, Volume 14, Issue 6, 2020, PP No:99-106 - **Scopus Indexed**
4	"**Design Of Twin Blade Digital Vegetable Cutter**" Journal of Xi'an University of Architecture & Technology, Volume XII, Issue V, 2020, PP No: 2231-2236.- **Scopus Indexed& UGC CARE-II**
5	"**Formative Knowledge Assessment Through Games using Concept Map and Game Theory**" , Journal of Information and Knowledge Management , Vol. 17, No. 03-**Scopus Indexed**
6	"**Automation of Concept Map Generation using Correlation and Stop Word Identification**", International Journal of Advances in Computer and Electronics Engineering, Vol. 3, No. 6, pp. 1-5, June 2018.
7	" **JSON Based Interactive Online Concept Mapping Tool: CmapEditor**", The Bulletin of the Technical Committee on Learning Technology (TCLT Bulletin),Vol 19, No 1 (2017) - **Scopus Indexed**
8	"**A Novel Game Theoretical Approach for Formative Knowledge Assessment: Feasibility Analysis**", Asian Journal of Research in Social Sciences And Humanities, Vol 6, No 4, pp 198-209.
9	" **Enhancing the Efficiency of Software Reliability by Detection and Elimination of Software Failures Through Univar ate Outlier Mining. In Advanced Computer and Communication Engineering Technology** "(pp. 595-604). Springer International Publishing. **(Scopus Indexed)**
10	" **Collapsed Concept Map Game: An Innovative Online Formative Knowledge Assessment Method, Technics, Technologies, Education, Management** " 9 (4), 818-827 **(Scopus Indexed)**
11	"**Exploring Concept Map and Its Role As Knowledge Assessment Tool (2009-2012)**", International Journal of Advanced Research in Computer Engineering &

	Technology (IJARCET), vol. 2, no. 4, pp. 1534-1540.
12	"**A Framework for Formative Knowledge Assessment System**", International Journal of Scientific Research, vol. 2, no. 5, pp. 242-244.
13	"**A Game Based Online Formative Knowledge Assessment System Using Concept Map**", International Journal of Applied and Theoretical Information Technology, vol. 53, no. 1, pp. 150-156 **(SNIP : 0.113).(Scopus Indexed)**
14	"**Assessment of Understanding using Concept Map: A Novel Approach**", International Journal of Computer Applications, vol. 54, no. 4 (**Impact Factor 2018: 0.704)(** 2012**).**
Recent Publications (Conferences)	
1	"**A Systematic Survey on Personalized Learning Framework based Recommendation System**", 2022, IEEEExplore.
2	"**A Deep Learning Model to predict Industry readiness of Engineering Students Community**" in the proceedings of ICITSD 2021, SSNCE, Chennai.
3	"**A Deep Learning based parameterized framework to investigate the influence of pedagogical innovations in Engineering Courses**" in the proceedings of ICCET2021
4	"**A Systematic Survey of Cognitive Chatbots in Personalized Learning Framework**" Submitted to WiSPNET 2021
5	"**An Intelligent Approach To Detect Web Page Anomalies**", International Conference on Integration of Advanced Technologies for Industry 4.0 (ICIATI), KCG College of Technology, Chennai, 2020.
6	"**Impact of Augmented Reality on learning Fused Deposition Modeling based 3D Printing**", Proceedings of The Future of Learning Conference 2020, Learning to Learn, Unlearn and Relearn: Flourishing in the Age of Disruptions and Innovations, 2020, IIM, Bangaloru.
7	"**A Study On Hard Of Hearing Children And Their Learning Assessments**", Proceedings of National Conference on Data Science and Intelligence Information Technology, held at Rajalakshmi Institute of Technology, Chennai on 6 & 7, April 2018.
8	"**Improvement of Language Skills of Hard of Hearing Children – A Literature Review**", Proceedings of Intl. conf. on Computer, Electrical, Electronics, Civil and Mechanical Engineering (IC2E2ME 2018) held at Ranganathan Engineering College during 30 & 31, March 2018 at Coimbatore, India.
9	"**An Alert System to Monitor the Movements of Differently Able Persons**", in Proceedings of National Conference on innovative Research Trends for Digital India (IRDIGIN 2K18), Rajalakshmi Engineering College, Chennai during 23 & 24, April 2018.

10	"**Survey on Roles of Game Based Learning in Special Education For Hearing Impaired Children**", Proceedings of National Conference on Recent Trends in SMAC, held at Kamaraj College of Engineering and Technology, Virudhunagar, India.
11	"**Game Based System to Enhance the Language Development of Hearing Impaired Children**" Proceedings of International Conference on Engineering Digital Green Era 2016, Chennai, India.
12	"**A Holistic Knowledge Management Framework for Higher Education Institutions**", Proceedings of Third International IEEE Conference on Computing Communication & Networking Technologies, Coimbatore, India.
13	"**A Study on Knowledge Representation Frameworks and Models**",Proceedings of International Conference on Recent Trends in Computer Science and Engineering (ICRTCSE 2012), Chennai, India.
International Conference & National Level Technical Seminars	
1	**Attended** • 10 International Conferences and more than 15 National level technical seminars • FDPs/Workshops on various technologies/domains • 10+ Short-term courses (also many Online courses) **Delivered** • Technical Talks (Invited Talks) in AICTE sponsored events • Talks at National conferences **Acted** • As Session chair in national level and International conferences • As Convener for AICTE sponsored STTP on **Data Analytics and Services using Machine Learning** (Four phases) during Nov & Dec 2020 at Dhirajlal Gandhi College of Technology, Salem.
2	**Attended** • 10 International Conferences and more than 15 National level technical seminars • FDPs/Workshops on various technologies/domains • 10+ Short-term courses (also many Online courses) **Delivered** • Technical Talks (Invited Talks) in AICTE sponsored events • Talks at National conferences **Acted** • As Session chair in national level and International conferences • As Convener for AICTE sponsored STTP on **Data Analytics and Services using Machine Learning** (Four phases) during Nov & Dec 2020 at Dhirajlal Gandhi College of Technology, Salem.

External Interactions	

Mem ber	**Working Group Member SA- IEEE P2955**
	Title: Recommended Practice for Creating Self Learning Tutorials and Side by Side Learning
	Scope: This recommended practice describes a methodology for creating self-learning tutorials, including tutorials which use screencast technology. Methods and practices that are applicable to spoken tutorials are defined, including use of side-by-side learning techniques.
	Board of Studies (BOS)
	    1. Rajalakshmi Engineering College (IT), Chennai. (Till April -2020)
	    2. Thanthai Hans Roever College (CS & IT), Perambalur. (Since June -2018)
	Reviewer - Reputed Intl. Journals
	    1. *Knowledge Management Research Practice(KMRP)*
	    2. *Journal of Information and Knowledge Management*
	    3. *International Journal of Scientific Research*
	    4. *Electronic Journal of Knowledge Management*
	    5. *Advances in Science, Technology and Engineering Systems Journal (ASTESJ)*
	
	Indian Examiner - Ph.D Thesis / Bharathiyar University, Coimbatore

Memberships in Professional Bodies		
S.No.	**Name of the Professional Body**	**Membership Number**
1	International Association of Computer Science and Information Technology (IACSIT) – Life Member	**80333178**

Funded Projects	
Project Title	A Visualization Framework to Enhance the Learning of Hearing-Impaired Children
Role	Principal Investigator
Total Cost	Rs. 28,56,803/-
Sponsoring Agency	TIDE Programme of SEED Division, Department of Science & Technology (DST), Govt. of India.
Status	Completed (Oct '2016- Sep'2018)

Foreign Countries/ Universities Visited
UNITED STATES OF AMERICA