||Jai Sri Gurudev ||

B G S College of Engineering & Technology, Mahalakshmipuram – 560086.

RESUME

Name	Dr Ravikumar GK															
Date of Birth	18-07-1972															
Address	Contact Address: Professor & HOD Dept Of CSE, BGSCET, Bangalore-560086 Residential Address: FA 501 M Golden Grand Aprts, Yeshwanthpur, Bangalore-560022 Contact Nos: E-mail: ravikumargk@yahoo.com Mobile: 9972094249															
								Department / Discipline	Computer Science and Engineering							
								Educational Qualifications	Exam Passed (Pl. Tick)	Institution University		% & Class Obtained	Year			
Degree:									SIT/ Bangalore University		74	1996				
PG: MTech	NITK Surathakal		72	2000												
Higher: Ph.D.	Dr.MGR University, Chennai		NA	2013												
Natur	Nature of Experience		No. of Years													
Experience Experience Details	110101	Teaching		25												
		Research		25												
	Designation	of years of Experience	n/Organization	Duration												
	Professor & HOD	Institution/ Organization BGS College of Engineering and Technology (BGSCET)		July -2022 to till date												
	Dept Of CSE															
	Director, IT, IPR, Research- Head (CSE) & Prof in	BGSIT-ACU : BG Nagar	Jun 2019 – Jul 2022													
	CSE Principal	Wipro Technologies,		Feb 2014 - May 2019												
	Consultant Professor and PG	Bangalore Parking of Tankanian Rayanian														
	Co-Ordinater Dept Of CSE	Acharya Institute of Technology ,Bangalore		Jul 2012 - Jan 2014												
	Lead Consultant	Wipro Technologies, Bangalore		Sept 2010- Jul 2012												
	Technical Lead	GATE Global Solutions angalore		Dec 2006 to June 2010												
	Professor & HOD Dept of CSE and ISE	SJBIT, Bangalore	Oct 2001 to Dec 2006													
	Software Engineer	Virgosys software	July 2000 to Aug 2001													
	Software Engineer	Virgosys software	July 1996 to Sep 1998													
Professional bodies Membership details		per of Computer Society of I per of Fellowship of The Inst	<u>-</u>	=)) for IT											

Life Member of Indian Society for Technical Education - ISTE (LM-41034) Senior Member of Institute of Electrical and Electronics Engineers - IEEE (96471611) Life Member of Indian Science Congress Association – (L-38411) National skills registry -NSR (ITPIN-801047329461) Other Professional Reviewer for International journals: **Experience** International journal of Journal of Big Data USA International journal of Computer Science and Information Security (IJCSIS). USA International Journal of Computer Science and Network Security, International Journal of Computer Science and Information Technologies International Journal on Soft Computing, Artificial Intelligence and Applications (IJSCAI) International Journal on Web Service Computing (IJWSC) Global Journal of Science & Engineering (Knowvel Journals) London, United Kingdom **Areas of Research** Database and data warehouse Systems Interest & Guidance **Data Mining Applications** Big Data & Analytics Cloud computing. Data Masking & Data aggregation in WSN Test Data Management MDM, Data Migration & Machine learning & Artificial intelligence **Awards Distinctions/Awards** Received Awarded "KSCST IP Award for the best innovator of the year 2020-21 from State government under faculty category. Awarded "National educational Excellence award -2020, for "Outstanding Contribution in Educational and Research Domain". Awarded "Karnataka Educational Award -2021 for Best Professor in Information Technology" Awarded as a Best lateral hire for year 2010 at Wipro technology. Qualified GATE -98 with AIR-490(all India rank) Awarded "Wipro tenets award" Awarded "SIT- Gold medal" for the year 1996 Batch 1. Visvesvaraya Technological University: V T U (State Public Govt University – India) Research guiding (Ph.D. In Computer Science and Engineering) Ph.D. Thesis title: (6- Awarded) A. "A novel approach for personalized big data security system using soft computing methods". B. "Optimization of frequent itemset mining for Big data streams on Retail Domain" C." A secure data aggregation technique in wireless sensor network" D." Performance evaluation of big data cluster using multipath TCP " E. "Performance analysis of data masking techniques for healthcare domain" National/ Workshop on Venue Date **International Work** SI.No. Shops/ Seminars / 1 Application of AI in Diagnosing and Drug | Florida USA **Conferences Attended** Repurposing in COVID 19: Advances in Artificial Intelligence, Software Systems Engineering (Proceedings of the AHFE 2021 Virtual Conferences on Human

		Factors in Software and Systems Engineering, Artificial Intelligence and Social Computing, and Energy, July 25–29, 2021, USA) ISSN 2367-3370 ISSN 2367-3389 (electronic) Lecture Notes in Networks and Systems ISBN 978-3-030-80623-1 ISBN 978-3-030-80624-8 (eBook) https://doi.org/10.1007/978-3-030-80624-8					
	2	Human Characterization using Fingerprint with Deep Learning Technique Paper accepted to present in 24th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2020		July 12 - 15, 2020			
	3	A Survey on Rainfall Analysis Using Big Data Analytics presented in the IAPR International Conference on Computer Vision & Image Processing (CVIP2020).	Information Technology				
	4	Human Characterization using Fingerprint with Deep Learning Technique Paper accepted to present in International Conference on Human Interaction & Emerging Technologies IHIET 3: Artificial Intelligence and Computing in Lausanne,		Nov 2019.			
	5	An Overview of Emerging Software Defined Networking and Security on Big Data Analytics National Conference on Emerging Trends in computer Science and Engineering	_	April 2015			
No. of Papers Presented/	Ch	Chapter publications					

Books Published

Chapter publications

In Springer

- Intelligent Data Analysis for COVID-19 Pandemic pp 347-364 -Tracking and Analysis of Corona Disease Using Intelligent Data Analysis: Online ISBN -978-981-16-1574-0 & Print ISBN: 978-981-16-1573-3 https://link.springer.com/chapter/10.1007/978-981-16-1574-0_16
- Advances in Artificial Intelligence and Data Engineering ISBN 978-981-15-3514-
- Secure and Energy-Efficient Data Transmission Pages 1311-1322
- Application of AI in Diagnosing and Drug Repurposing in COVID 19 https://link.springer.com/chapter/10.1007/978-3-030-80624-8_15 Advances in Artificial Intelligence, Software and Systems Engineering (Proceedings of the AHFE 2021 Virtual Conferences on Human Factors in Software and Systems Engineering, Artificial Intelligence and Social Computing, and Energy, July 25-29, 2021, USA) ISSN 2367-3370 ISSN 2367-3389 (electronic) Lecture Notes in Networks and Systems ISBN 978-3-030-80623-1 ISBN 978-3-030-80624-8 (eBook) https://doi.org/10.1007/978-3-030-80624-8

Publication Details:

INTERNATIONAL JOURNALS & CONFERENCES:

Application of AI in Diagnosing and Drug Repurposing in COVID 19: Advances in Artificial Intelligence, Software and Systems Engineering (Proceedings of the AHFE 2021 Virtual Conferences on Human Factors in Software and Systems Engineering, Artificial Intelligence and Social Computing, and Energy, July 25–29, 2021, USA) ISSN 2367-3370 ISSN 2367-3389 (electronic) Lecture Notes in Networks and Systems ISBN 978-3-030-80623-1 ISBN 978-3-030-80624-8 (eBook) https://doi.org/10.1007/978-3-030-80624-8

The Study of Noise levels in Commercial and Sensitive Zones of Bengaluru Metropolitian City
- Published in Journal of Huazhong University of Science and Technology VOLUME 50
ISSUE 07 - 2021 PAPER ID: HST-0721-22: ISSN-1671-4512

Human Characterization using Fingerprint with Deep Learning Technique Paper accepted to present in 24th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2020, which will be held on July 12 - 15, 2020, in **Orlando, Florida, USA**.

Investigation of Network anomaly detection techniques for Distributed Daniel of service attacks. Published in International journal of scientific research in engineering and management, Vol-04, issue-04, April 2020. ISSN: 2582-3930.

Reduction of False Positives Reduction of False Positives in Network Intrusion Detection using a Hybrid Classification Approach. Accepted in the International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE 2020) organized by IEEE.

Framework Design of Deep Detector: A Novel Network Anomaly Detector using Deep Learning Technique for Detecting DDoS Attacks. Accepted in the IAPR International Conference on Computer Vision & Image Processing (CVIP2020). Indian Institute of Information Technology Allahabad.

Android application for critical patient monitoring system published in International Journal for Research in Applied Science and Engineering technology DOI:10.22214, Vol 8, Issue I, Paper ID:IJRASET26498, Jan 2020.

A Survey on Rainfall Analysis Using Big Data Analytics Accepted in the IAPR International Conference on Computer Vision & Image Processing (CVIP2020). Indian Institute of Information Technology Allahabad.

Human Characterization using Fingerprint with Deep Learning Technique Paper accepted to present in International Conference on Human Interaction & Emerging Technologies IHIET 3: Artificial Intelligence and Computing in Lausanne, Switzerland, Nov 2019.

Survey on Machine Learning Based Video Analytics Techniques, Accepted and Gallery Proof is generated in Journal of Computational and Theoretical Nanoscience Vol. 17, 1–7, 2020, doi:10.1166/jctn.2020.9000

Fraud detection using Support vector machine published in International Journal of Management, Technology And Engineering, IJMTE Journal, Vol-9, Issue-3, March 2019.

Energy efficient clustering method for wireless sensor network Published in Indonesian Journal of Electrical Engineering and Computer Science Vol. 14, No. 2, ISSN: 2502-4752, May 2019

Secure and Energy Efficient Data Transmission Model for Wireless Sensor Network presented

in AIDE-19: International Conference on Artificial Intelligence and Data Engineering, May 23-24th 2019.

Secure And Efficient Cluster Based Routing Model For Wireless Sensor Network published in International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-11, Sept 2019.

Design and Development of Efficient Multipath TCP for Data Center in Public Cloud Published in International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-4, November 2019

Compressing Closed Frequent Itemsets with Controlled Information Loss Presented in 8th IEEE INTERNATIONAL CONFERENCE ON CLOUD COMPUTING IN EMERGING MARKETS 19th & 20th September 2019 Bengaluru, India (IEEECCEM2019)

A Novel Data Masking Methods for Securing Medical Image Presented in 2nd IEEE International Conference on Smart Systems and Inventive Technology 2019 (ICSSIT 2019) is being organized by Francis Xavier Engineering College, Tirunelveli. Nov 2019.

A Novel Data Masking Approach for Preserving Format and Size. Published in IJER-eISSN-2320_592X Volume-2, Issue-1, Feb-2019.

An Efficient Data Masking for securing Medical Data using DNA Encoding and Chaotic System International Journal of Electrical and Computer Engineering (IJECE, ISSN: 2088-8708).

Analysis of Masking Techniques to Find out Security and other Efficiency Issues in Healthcare Domain 3rd International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC 2019), SCAD Institute of Technology, Palladam, Tamilnadu, India.

Cyberbullying Detection Primarily based on Semantic-Greater Marginalized Denoising Automobile-Encoder Published in International Journal of Research In Electronics And Computer Engineering (IJRECE), July-2019 Volume 7 & Issue 2. Also presented in First IEEE International Conference on Advances In Information Technology (ICAIT-2019).

Survey on Machine Learning Based Video Analytics Techniques Presented in Second International Conference on Recent Innovative Trends in Computer Science and Applications.

An Approach for Big Data Security Based on Hadoop Distributed File System Presented in Second International Conference on Emerging Trends in Science & Technologies for Engineering Systems

Mining Prominent Closed Frequent Itemsets from Data Streams using Dynamic and Adaptive Minimum Support Threshold presented in 3rd International Conference on Computational Systems and Information Technology for Sustainable Solutions (CSITSS - 2018) IEEE ISBN: 978-1-5386-6078-2

Survey on MPTCP Approach On Bigdata Clusters Presented & Published in IEEE conference ISBN:978-1-5386-5657-0 – Aug 2018

Monitoring the appliances used in health care using Medical Big Data. Presented in International Conference on Inventive Computation Technologies 2018.

Visualization of Working of DBSCAN and OPTICS Algorithm Using Data Mining Tools published in IJCSIS VOL 16, No 12 ISSN 1947-5500 – Dec 2018.

A Brief Survey on Data Masking Techniques and Their Limitations. Published in IEEE conference

ICEECCOT-IEEE ISBN:978-1-5386-5130-8/18 – Dec 2018.

Deriving Attribute Relationship for Big Data Security International journal of Advanced Research in computer and communication Engineering. Vol 6,Issue 10,ISSN-2278-1021.Oct 2017

Improving Degree of Accuracy in Mining Significant Closed Frequent Itemsets using Subset Significance Threshold presented in international IEEE CSITSS 2018 conference Nov -2018.

Subset Significance Threshold: An Effective Constraint Variable for Mining Significant Closed Frequent Item sets presented in IEMIS-18 International Conference, kolkatta. Advances in intelligent systems and computing AISC series ISSN:2194-5357 Indexed by Scopus, ISI, DBLP Springer link, Meta Press

A secure and energy efficient cluster optimization by using hierarchical clustering technique: Third International Conference on Devices, Circuits and Systems (ICDCS'16): 978-1-5090-2309-7/16/\$31.00©2016 IEEE.

Efficient Incremental Itemset Tree for Approximate Frequent Itemset Mining On Data Stream: 978-1-5090-2399-8/16/\$31.00_c 2016 IEEE. 2nd International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT)

An Energy Efficient Cluster Selection Optimization using Evolutionary Imperialist Competitive Algorithm: International Journal of Computer Applications (0975 – 8887) Volume 127 – No.1, October 2015

Clustering of Dissimilar perception phase constructed for similarity Measures using K means algorithm: IEEE International Conference on Applied and Theoretical Computing and Communication Technology. July 2016

Emerging Trends in Real-Time Big Data Analytics. International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.86 (2015) © Research India Publications; http/www.ripublication.com/ijaer.htm

A Survey on Closed Frequent Itemset Mining on Data Streams 978-1-5090-5256-1/16/\$31.00_c 2016 IEEE. 2016 2nd International Conference on Contemporary Computing and Informatics (ic3i)

Securing Big Data over Network using MD5 Algorithm Technique: International Journal of Computer Applications (0975 – 8887) Volume 123 – No.15, August 2015

Smart Web Search Engine Framework with Personalization and Privacy Preservation with Hadoop: International Advanced Research Journal in Science, Engineering and Technology Vol. 3, Issue 5, May 2016: ISSN (Online) 2393-8021 ISSN (Print) 2394-1588

Parallel data mining on cloud computing: Institute for Studies on Recent Advance in Science and Engineering (ISRASE) ISBN: 978-93-84935-26-99

Reviewing Potential Encryption Techniques for Ensuring Image Security: Institute for Studies on Recent Advance in Science and Engineering (ISRASE) ISBN: 978-93-84935-26-99

An Efficient and Secured Framework for Image Authentication using Invariant Hash Function: International Journal of Applied Engineering Research (IJAER) ISSN: 0973-4562 Vol.10

A Survey on Multimedia Data Mining and Its Relevance Today - IJCSNS International Journal of Computer Science and Network Security, VOL.10 No.11, November 2010. 165-170. (IC=5)

Design and Analysis of DWH and BI in Education Domain- IJCSI International Journal of Computer Science Issues, Vol. 8, Issue 2, March 2011 ISSN (Online): 1694-0814.545-551.(impact factor=0.242)

Analysis of Data Quality Aspects in Data Warehouse Systems. (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 2 (1), 2011, 477-485.(IC=5)

Automated Data Validation for Data Migration Security, International Journal of Computer Applications (0975 – 8887), Volume 30– No.6, September 2011. (Impact factor=0.88)

Cross Industry Survey on Data mining Applications, International Journal of Computer Science and Information Technologies, Vol. 30, 2011, 624-628.(IC=5)

A Survey on Recent trends, Process and Development in Data Masking for Testing- IJCSI International Journal of Computer Science Issues, Vol. 8, Issue 2, March 2011 ISSN (Online): 1694-0814 535-544.(impact factor=0.242)

A Study on design and analysis of web mart mining and its relevance today-IJEST, ISSN: 0975-5462, Vol.3 No. 4 Apr 2011. (IC=5)

Design of Data Masking Architecture and Analysis of Data Masking Techniques for Testing - IJEST, ISSN:

0975-5462, Vol. 3 No. 6 June 2011. (IC=5)

Experimental Study of Various Data Masking Techniques with Random Replacement using data volume, IJCSIS ISSN 1947-5500, Vol. 9 No. 8, August 2011.(impact factor=0.5)

A Study on Dynamic Data Masking with its Trends and Implications. International Journal of Computer Applications 38(6):19-24, January 2012. Published by Foundation of Computer Science, New York, USA.(impact factor=0.88)

Realistic Analysis of Data Warehousing and Data Mining Application in Education Domain Paper is accepted in 2011 3rd International Conference on Machine Learning and Computing (ICMLC 2011) Singapore, February 26-28, 2011(ICMLC 2011 will be published in the conference proceeding by IEEE, which will be included in IEEE Xplore, and indexed by INSPEC, Ei Compendex and ISI Proceedings; IEEE Catalog Number: CFP1127J-PRT ISBN: 978-1-4244-9252-7 Paper ID: VIP – ICMLC-C00989-001)

Additional Information (Patents, if any)

Patents filed: Total:23 (India:14 & USA:9) Invited Talks and Consultancy

- Research Advisory committee member for Precedency University Bangalore
- Research Doctoral Committee member for SJBIT- Visvesvaraya Technological University
- Research Doctoral Committee member for ACIT- Visvesvaraya Technological University
- Research Doctoral Committee member for Dr.AIT- Visvesvaraya Technological University
- Research Doctoral Committee member for M.S.Ramaiah University Bangalore
- Research Doctoral Committee member for BMSIT- Visvesvaraya Technological University:
- Involved in Research Thesis evaluation (Ph.D.) for Visvesvaraya Technological University
- Recognized Ph.D. guide for Computer Science and engineering in Visvesvaraya Technological University

- Recognized Ph.D. guide for Computer Science and engineering in Adicunchanagiri University
- Worked as Guest Lecturer for Dr MGR University Chennai Bangalore center for PG Classes.
- Session chair for Data mining papers in national conference held in Acharya institute of technology, Bangalore.
- Worked as corporate trainer for the new joiners for Tech Mahindra from CMC Bangalore.
- Active member for frame development for architect roles (4.2) in Wipro technologies.
- Conducted Cross Skill Programs to align the skill set for data warehouse in Wipro technologies
- Worked as Project coordinator for 8th semester students in SJBIT, Bangalore.
- Involved in theory evaluation and practical examination work from SJBIT, VTU, Karnataka.
- Guided MPhil student to complete the thesis and his findings and involved in validation work
- Worked as HOD of CSE and ISE for more than 5 years and Involved in developing the Dept.
- Involved in setting up of all the lab for the CSE and ISE from 1st semester to 8th semester at SIBIT

Administration.

- 1. Worked as IT head & IP Director for Adichuncahanagiri University
- 2. Worked as R&D head (CSE) for Adichuncahanagiri University
- 3. Worked as a Prof & Head of the department of CSE and ISE from Oct 2001 to Dec 2006 at SJBIT Bangalore

Professional Summary:

- Over 25 Years of Experience in Both IT and research
- Currently trained and working on RPA(Robotic process automation)
- Over 12 years of total IT experience in Analytics, development, and testing
- Over 12 years of total experience in research, teaching for research students.
- Strong understanding and experience with Data data structures, databases & file systems, relationships, data quality, transformations.
- Experience with Opportunity mining, Pre-sales solutioning, leading proposal teams, Getting
 estimations developed, working with multiple contributing teams, bringing innovation,
 developing thought-leading content and articulating clear value proposition to client
- Proposal defense, consulting, and delivery for analytics and data centric based proposals
- Account management
- Solid Retail Ecommerce Test management experience in HLS, Retail and BFSI verticals
- Experienced Solution consultant in Test Data Management, DW Testing, BI Testing, Analytics, Data Migration, Big Data and Master Data Management
- Worked as a Pre-Sales Solutions Architect at Wipro technologies for DW/BI testing projects (TDM,DW/BI testing, DM testing etc)
- Involved in customer presentation (K-bank) at Bangkok for TDM Project.
- Involved in Due diligence activates for TDM and Data masking project at onsite (for CVS USA)
- Involved in Implementation of Data masking project for CVS- USA and Onshore.
- Worked as a Test Lead/Test Manager for BI/OLAP Stream for US Groceries for Wal-Mart, USA
- Worked as Test Lead/Test Manager, being responsible for Project delivery project management for Union Bank of California. USA since Sept 2008 to June 2010.
- Worked as Principal consultant, being responsible for Project delivery project management for CVS Health . USA since Dec 2015 to June 2017.
- Worked as Data architect, being responsible for Project delivery project management Kohl's. USA since Jun 2017 to May 2018.
- Worked as Test Analyst/CSM/TM for Onsite Project for Union Bank of California. USA through IGATE Global solutions from Dec 2008 to Jul 2009.

- Worked as Test Lead being responsible for Project delivery project management for SWISS Re, Switzerland from Dec2006 to Aug 2008
- Have got exposure to ETL(informatica 5x,6x,7x &8x) / OLAP and BI Reporting tools like Ab-Initio, Tera Data, Data stage,Cognos, OBIEE and querying via SQL And UNIX
- Conceptual knowledge on OLAP cubes.
- Involved in E2E SIT lifecycle for Clients like Swiss re, UBOC with thorough knowledge of OSS/BSS in Provisioning of a customer, Customer care & Order management via CRM and Billing the customers.
- Responsible for preparation of Test Strategy, Test plan, Test Summary Reports and other artifacts
- Successfully prepared and delivered the Test Objective Matrix & preparation and review of Test cases.
- Sets standards and identifies, recommends and implements changes to enhance the effectiveness of quality assurance strategies
- Involved in different testing phases like Sanity, Functionality, Regression, Front End GUI, Database/Data warehouse testing, System testing, Integration testing, UAT, E2E telecom testing
- Effectively implemented and utilized test method tools (Eg: OA) in a timely manner consistent with project deadlines.
- Excellent communication, analytical, problem solving and technical skills