RESUME

Dr. G. SIVAKUMAR

24, SDotG Flora
Veppampalayam
Erode -638 112
TamilNadu

Personal Details	Father's Name	:	Shri. P. Ganapathi
	Date of Birth	:	30-05-1974
	Mobile	:	9994244540, 8667535072
	E-mail	:	sivakumarganapathi@gmail.com
	Marital Status	:	Married

Educational Qualifications	**Ph.D. Computer Science and Engineering** (2018) Faculty : Information and Communication Engineering Anna University , Chennai *Title of Thesis* **:** An effective hierarchical Prefetching and Scheduling for Peer to Peer Video on Demand System **M.E. Computer Science and Engineering** 2007-2009, Anna University of Technology, Coimbatore. *University 6th Rank (9.34 CGPA)* **B.E. Computer Science and Engineering**, 1991-1995, Bharathiar University, Coimbatore *First Class (70%)*

Experience Summary	**Total Experience : 23 Years 8 Months** - Industry Experience : **3 Years 1 Month** - Teaching Experience : **20 Years 7 Months**

Details of Experience	**Erode Sengunthar Engineering College (Autonomous), Perundurai, Erode District, TamilNadu** Period of Service: **04-06-2001 to till date** - Working as **Professor and Head of the Department CSE & Artificial Intelligence and Data Science** from 01-02-2019 to till date. **Associate Professor**, Department of Computer Science and Engineering from 01-10-2013 to 31-01-2019. **Assistant Professor (Selection Grade -II),** Department of Computer Science and Engineering from 01-07-2012 to 30-09-2013. **Assistant Professor**, Department of Computer Science and Engineering from 01-07-2010 to 31-06-2012. **Senior Lecturer**, Department of Computer Science and Engineering from 01-03-2007 to 31-05-2007 and 01-08-2009 to 31-06-2010. **Lecturer,** Department of Computer Science and Engineering from 04-06-2001 to 28-02-2007.

	Worked as Lecturer in **PEE GEE College**, Dharmapuri for 2 Years 1 Month (03-01-1999 to 28-02-2001). Worked for **S&S Software Solutions, Chennai** for 3 Years 1 Month (From 14-12-1995 to 29-12-1998)
Funds Received	• **Rs. 40,000/-** from ICMR to conduct two day National Seminar on "Data Analytics in Healthcare Systems". • **Rs.42,000/-** from AICTE to conduct two-Day National Seminar on "Security Issues in Distributed Systems". • **Rs.3, 67,000/-** from AICTE (PMKVY Scheme) to conduct Junior Software Develop Course. • **Received Rs.4,79,000/-** by AICTE to conduct 7 Days FDP on "Data Analytics using Hadoop and Machine Learning using Python.
Consultancy Projects & Software Developed	**1. EEDSSIA Membership Management System:** Developed an Intranet based application "EEDSSIA Membership Management System" for Erode District Small Scale Industries Association. This application assists the EEDSSIA to management its members. It has the following facilities ▪ New Member Registration ▪ Members update ▪ SMS & Mail ▪ Report on Membership fee and details Technology used: PHP, MySQL, HTML, CSS, JavaScript, PDF Library **2. Online Examination System:** Developed an Intranet Based Application to Conduct Online Examination for Training and Placement Cell of Erode Sengunthar Engineering College using HTML, CSS, Java Script, PHP & MySQL. It has the following facilities ▪ Student Registration ▪ Student Login ▪ Admin Login ▪ Exam Details Entry, Delete and Update ▪ Questions Upload, Delete and Update ▪ Exam Result Summary **3. Search and Download Facility for Library** Developed Resource Search and Download facility for Central Library of Erode Sengunthar Engineering College using HTML, CSS, Java Script, PHP & MySQL. It has the following facilities ▪ Searching Project Reports ▪ Searching Question Paper ▪ Downloading Student Projects ▪ Downloading Question Paper

	4. Alumni Portal Developed a Alumni Portal for Erode Sengunthar Engineering College using HTML, CSS, Java Script, PHP & MySQL. It has the following facilities - Alumni Registration - Alumni Login - Alumni Update - Alumni Search - Message to College - Event Update **5. Circular Management System** Developed Circular Management System for CSE Department. It provides the following facilities - New Circular Entry with attachment - Existing Circular update and remove - Circular View Technology Used : HTML, CSS, JavaScript, PHP & MySQL **6. Online Faculty Recruitment System** Developed Online facility for new faculty recruitment. It provide the facility to user to submit the resume with all information online. Report generation facility is also available in the application Technology Used : HTML, CSS, JavaScript, PHP & MySQL **7.Online Central Valuation System** Developed Online Central Valuation System for CoE of Erode Sengunthar Engineering College. It has the following facilities - Examiner Registration - Chairman Registration - Chairman Login - Examiner Login - Mark Entry - Mark Sheet Generation - Chairman Script Verification - Claim Form Generation - Report for CoE Technology Used : HTML, CSS, JavaScript, PHP & MySQL
Infrastructure Established	- IIT Bombay Remote Center - Big Data Analytics Center - Technology Center – To enrich the Faculty and Students in IT based technology. - Web Server for Online Examination System - Squid Proxy - Moodle Server - AI & Machine Learning Laboratory

Theory Courses Handled	▪ Internet Programming ▪ Advanced Java programming ▪ Computer Architecture ▪ Operating Systems ▪ Client/Server Computing ▪ Software Engineering ▪ Java Programming • System Software • Programming Paradigm • Problem Solving and Python Programming	▪ Web Technologies ▪ Component Based Technology ▪ Open Source Software ▪ Object Oriented Programming ▪ Data Structures ▪ SQA & Testing ▪ Managing Big Data ▪ C Programming ▪ Software Design ▪ Internet of Things
Laboratory Courses Handled	▪ Data Analytics Lab ▪ Object Oriented Programming Lab ▪ Java Lab ▪ C Programming Lab ▪ Web Technology Lab	▪ Internet Programming Lab ▪ Data Structures Lab ▪ Problem Solving and Python Programming Lab ▪ Computer Practices Lab ▪ Data Analytics Lab
Programme Organized	▪ International Conference on Emerging trends in Engineering, Science and Sustainable Technology 2017,2018 ▪ JOBMELA 2010- Job Fair (38 Companies participated) ▪ AICTE Sponsored National Seminar on "Security in Distributed Computing ". ▪ ICMR Sponsored two-day National Seminar on "Data Analytics in Healthcare Systems" - 2017 ▪ Polyfest 2017, Polyfest 2018 – A State Level Technical and Cultural Competitions for Polytechnic College Students ▪ AICTE Sponsored FDP on "Data Analytics using Hadoop and Machine Learning using Python" ▪ ATAL online FDP on "Data Science" ▪ National Level Technical Symposiums ▪ Guest Lectures/Seminars/Webinars ▪ Workshops ▪ Hackathons	
Significant Responsibilities	▪ Head of the Department / CSE and AIDS ▪ Chairman Board of Studies CSE (B.E. CSE, M.E. CSE, B.E.CSD, M.Tech. CSE(5 Years Integrated) ▪ Chairman Board of Studies IT ▪ Chairman Board of Studies Artificial Intelligence and Data Science ▪ Member of Academic Council of ESEC ▪ Member of Governing Council of ESEC ▪ Member of NAAC- IQAC, ESEC	

	- NBA Coordinator - Webmaster – ESEC Website - Mail Administrator ESEC Mail server (esec.ac.in domain)
Book Authored / Proceeding Editor/ Monographs	- Written Book for Open Source Software (Internal Circulation only) - Editor, Proceedings of International Conference on " Network Security" – ICONS '07 - Laboratory Manuals for Java Programming, C Programming, Internet Programming, Python Programming, Object Oriented Programming using C++, Open Source Software, Web Technology, Data Structure and Data Analytics etc.
Conferences Publications	1. Presented a Paper titled "Framework for Practical Implementation of Network Security "in the National Conference on 06-01-05 & 07-01-05 organized by Adhiyaman College of Engineering, Hosur. 2. Presented a Paper titled " Analysis of WLAN Discovery Applications for Intrusion Detection in MAC, LLC Layer " in the National Conference on 06-01-05 & 07-01-05 organized by Adhiyaman College of Engineering, Hosur. 3. Presented a Paper titled " Linux Hypervisor Based Resource Discovery and Resource Management in Distributed System " in the International Conference on 16-12-05 & 17-12-05 organized by Nour Islam College of Engineering, Kanyakumari. 4. Presented a Paper titled "Urinary System Disorder analysis using Artificial Neural Networks in the one day conference on Recent trends in Science, Engineering and Technology on 17-11-2006. 5. Presented a Paper titled "A Genetic Classifier approach for Intrusion Detection and Auto Response" in the National Conference on Emerging Trends in Advanced Computing on 24-02-2009. 6. Presented a Paper titled "A neural network approach for Diagnosis of cervical cancer" in the one day conference on "Recent Trends in Science, Engineering and Technology on 04-05-2009. 7. Presented a paper titled "Anomaly DoS traffic Detection using Statistical Wavelet Transform" in the National Conference on Systematic, Cybernetics and Informatics sponsored by DST conducted by Kongu Engineering College on 23-10-2009 and 24-10-2009. 8. Presented Paper titled "Congestion Avoidance and Control" in the National Conference on Broadband Technologies held on 10-04-2010.

	9. Presented paper titled "Brain Image Segmentation Approach" in the National Conference on Advances in Computing on 17-03-2012.
	10. Presented a Paper titled "Allocating Resource Dynamically using Load Prediction Algorithm in Cloud Computing Environment in the International Conference on Recent Computing and Communication Technologies on 16-04-2014.
	11. Presented a Paper titled "Replicating and Searching popular videos in P2P Video on Demand System" in the International Conference on Trends in Technology for Convergence" on 08-04-2014 & 09-04-2014 organized by AVS Engineering College and University of OULU.
	12. Presented a Paper titled "Msvm Clustering with IABC Approach for query based recommendation System" in the National Conference on Internet of Things on 29-04-2016.
	13. Presented a Paper titled "Analysis of Hadoop Workload Characterization" in the International Conference on International Conference on Emerging trends in Engineering, Science and Sustainable Technology on 05-04-2018 and 06-04-2018.
Journals Publications	1. Published a Paper titled 'Popularity based hierarchical prefetching technique for P2P video-on-demand', Multimedia Tools and Applications, Springer US, ISSN 1380-7501(Print), ISSN 1573-7721(Online), https://doi.org/10.1007/ s11042-017-5167-y, published online 01 October 2017, Print: June 2018, Volume 77, Issue 12, pp 15913–15928, IF - 1.530.
	2. Published a Paper titled 'Artificial Bee Colony based Data Scheduling for Peer-to-Peer Network Video on Demand System' Journal of Computational and Theoretical Nanoscience, Volume 14, Number 12, December 2017, pp. 5907-5914, American Scientific Publishers, DOI:10.1166/ jctn.2017.7034, ISSN: 1546-1955 (Print): EISSN: 1546-1963 (Online), IF – 1.42.
	3. Published a Paper titled "A Survey on Caching and Replication algorithms for Content distribution in Peer-to-Peer Networks" in International Journal of Computer Science and Network Security, Vol.15 No.10, October 2015.
	4. Published a Paper titled "Peer-Clustering and Fast Lookup Service for Random Jump in Video on Demand (VoD) Services" in the International Journal of Applied Engineering Research, Vol. 10, Issue No. 56, Page No.126-132, 2015.
	5. Published a Paper titled "Survey on Dynamic Resource Allocation Strategy in Cloud Computing Environment" in the International Journal of Computer Applications Technology and Research Volume 2– Issue 6, 731 - 737, 2013.

	6. Published a Paper titled "survey on various peer discovery techniques in p2p Video On Demand Systems (VoD)" in the International Journal of Radix International Educational and Research Consortium (December 2012).
	7. Published Paper titled "Feature Selection Algorithm using Fuzzy Rough Sets for Predicting Cervical Cancer Risks " in the International Journal –Journal of Modern Applied Sciences. Volume 4, Issue 8 , July 2010.
	8. G. Sivakumar, published a paper on "A study of finger print recognition using ridge features" in the International Journal of Solid state technology, volume 7, issue 2, December 2020.
	9. G. Sivakumar, published a paper on "Hands-Free Natural Language Processing System in Wireless multimedia Personal Networks" in the European Journal of Molecular and Clinical Medicine, Volume 7, issue2, Dec 2020.
	10. G. Sivakumar, published a paper on "A Study of multi cloud systems with big data analytics" in the Journal of Huazhong University of Science and Technology", Vol. 50, issue 3, 2021
	11. Dr.G.Sivakumar, Published a paper on "Development and Organize of Wireless Sensor Network in Home Management Using IoT" in the International Journal of Aquatic Science ISSN: 2008-8019 Vol 12, Issue 02, 2021.
	12. Dr.G.Sivakumar, Published a paper on "Automated Visual Assessment from Optical Data Sets to Enhance the Accuracy of Data Analysis" in the International Journal of Aquatic Science ISSN: 2008-8019 Vol 12, Issue 01, 2021.
Patent Publications	1. Published a patent titled "System and Method for Managing SAR value, Quality of Service and Energy Consumption for WCDMA" during January 2020. File No: 202011000900
	2. Published a patent on "Deep Learning Techniques To Assess The Network Security Aspects", Application number: 202221001808
Conferences / Summer / Winter Schools / Seminars / FDPs Attended	1. Attended the FDP on "Emerging Research Trends in the Field of Computer Science" conducted by Eswari Engineering College from 28.06.21 to 03.07.21.
	2. Attended Five Days online FDP on PHP and MYSQL from 11.05.2020 to 15.05.2020 organized by VIT and Spoken Tutorial
	3. Attended Online IIT Bombay Spoken Tutorials sponsored FDP on Python 3.4.3 and R Programming 20.04.2020. to 30.04.2020 organized by Eswari Engineering College

	4. Participated in "IIC Innovations Ambassador Training", Sri Krishna College of Engineering and Technology on 06-01-2020 and 07-01-2020.
	5. TEQUIP sponsored Seven Days FDP on "Big Data Analytics" organized by PSG College of Technology from 26-11-2018 to 02-012-2018.
	6. One day Higher Education Conclave on 01-09-2017 at Bangalore organized by BW Business world.
	7. ICMR sponsored workshop on "Promotion of emotional and mental health among students through teachers " on 16-03-2016.
	8. Seven Days Faculty Development Programme on "Multi Core Architecture and Programming" from 21-11-2016 to 27-11-2016 organized by Erode Sengunthar Engineering College in association with Centre for Faculty Development, Anna University Chennai.
	9. Two-day Faculty Development Programme on "System Software" on 07-05-2014 and 08-05-2014.
	10. Two-day Faculty Development Programme on "Theory of Computation" on 12-05-2014 and 13-05-2014.
	11. International Research workshop on "Preparation & Publication of Research Articles in International Journals" organized by The Kavery Engineering College, Mechery in association with Higher Education Academy London, UK on 28-03-2013.
	12. FDP on "Understanding Gen-Y & Classroom Management" by Helikx on 20-08-2013.
	13. Two-Day Faculty Development Programme on "Design and Analysis Algorithms" on 20-11-2013 and 21-11-2013.
	14. Two-Day Faculty Development Programme on "Artificial Intelligence" on 22-11-2013 and 23-11-2013.
	15. National Level Seminar on "Intellectual Property Rights Awareness in E & IT Sector" on 16-03-2012 organized by Coimbatore Institute of Technology.
	16. National Seminar on "Research Issues in Emerging Trends of Information Technology "at Karpagam College of Engineering on 23-03-2010 & 24-03-2010.
	17. Two-day Training Programme for Senior Faculty Member on 03-06-2010 & 04-06-2010 organized by Erode Sengunthar Engineering College, Erode.
	18. One day workshop on "Effective Teaching Techniques & Stress Management" organized by ISTE Chapter of Erode Sengunthar Engineering College on 13-10-2010.

	19. One Day "Achievement Motivation Training Programme" on 10-12-04 & 11-12-04 organized by Erode Sengunthar Engineering College, Erode. 20. Conference on "Concepts & Opportunities in Business Process Outsourcing (BPO), Bio-Informatics, Open Source and E-Governance" organized by CSI at GCT, Coimbatore on 21-02-2003 and 22-02-2003. 21. ISTE Annual Convention and National Seminar on "Reaching the Unreached : A Challenge to Technical Education " organized by Kumaraguru College of Technology, Coimbatore during 27-30 December 2003. 22. FDP on " Modern Teaching Competencies" between 21-12-02 to 23-12-02, Erode Sengunthar Engineering College, Erode.
Industries Organized Trainings / Workshops /Seminars Attended	1. One day Seminar on "IBM Learnnovate" organized by **IBM India** Limited at Coimbatore on 19-11-2018. 2. One day workshop on "Challenges and Modern Techniques in Realizing Complex Infrastructure" on 05-03-2018 organized by **ISRO, Sriharikota.** 3. One day online workshop on " Networking simulation using Qualnet" on 21-09-2017 organized by **Dellsoft.** 4. Knowledge++ workshop on 27-02-2015 and 28-02-2015 organized by **L&T Infotech**, Chennai. 5. Five Days Faculty Development Program on Mobile App Development from 15-12-2015 to 19-12-2015 organized by **ICT Academy of TamilNadu.** 6. Three day Train the Trainer Programme on "Hadoop – A Practitioner Approach" organized by **Infosys Limited** in association with Jain University, Bangalore from 16-01-2014 to 18-01-2014. 7. Attended Mission10x workshop organized by **Wipro Technologies Ltd**., in association with Erode Sengunthar Engineering College from 16-05-2011 to 20-05-2011. 8. Two-day Workshop on High Impact Teaching Skills organized by **Wipro Technologies Ltd**. in association with Erode Sengunthar Engineering College on 16-05-2011 & 17-05-2011. 9. Two-day "Orientation programme on 'Industrial Expectations 'organized by Center for University Industry Collaboration, Anna University Chennai on 08-09-2010 & 09-09-2010. 10. One day workshop on "Advanced Developer Technologies" organized by **Microsoft Corporation** on 31-03-2009. 11. Train the Trainer Programme on 08-12-2006 & 09-12-2006, **Xansa India Ltd**., Chennai.

	12. Thirteen days Faculty Enablement Program on " Foundational Computer Science Courses – An Industry Perspective" held at **Infosys Technologies**, Mysore from 01-05-2006 to 13-05-2006. 13. Attended 3 Days Faculty Development Programme on IoT and Intel Ideation Workshop organized by **Intel** in association with Hindustan College of Engineering and Technology.
Workshops / Seminars/ Conferences / Training Programmes attended on " Open Source Software "	1. Attended Faculty Training Programme on ' **FOSS for Education and Research**" at Anna University of Technology Coimbatore on 18-12-2009. 2. AICTE Seminar on " **Open Source Web Development using LAMP**" on 02-01-09 & -03-01-09 , IRTT, Erode. 3. **FDP on " Free/Open Source Software (FOSS) "** on 05-09-08 and 06-09-08, Sri Krishna College of Engineering and Technology, Coimbatore. 4. **FOSS Teachers Training Programme** from 06-06-05 to 18-06-05 organized by AU-KBC Research Centre, MIT Campus of Anna University, Chennai. 5. Workshop "**Unix based Implementation of Operating Systems Concepts**" on 15-05-03 & 16-05-03 organized by Anna University, Chennai
Online Certifications	▪ Certificate of Learning – **PHP & MySQL** from **Spoken Tutorial** Project, IIT Bombay. ▪ Received **NPTEL** Certificate on "**Parallel Programming using Open MP**" and obtained FDP Certificate for the same.
Awards & Recognition	▪ **Received Outstanding Contribution** to Campus Connect Program from Infosys Limited. ▪ Received **Smart Deployment Award** from Eduscuplt(Google Partner) ▪ Received **Appreciation** for the Consultancy service from EEDSSIA, Erode ▪ Received **Appreciation** from the Management of Erode Sengunthar Engineering College for more than 10 Years of Service. ▪ Acted as **Co-chair person** in the **AICTE** Sponsored **International Conference on Data Science and Big Data Analytics for Sustainability** organized by Nandha Engineering College, Erode on 22.02.2020
UG Projects Guided	▪ In-House Projects : 08 ▪ IEEE Projects : 24
PG Projects Guided	▪ 10 Projects

Area of Expertise in technology	▪ 12 Years of Experience in NBA Outcome based Education Process ▪ Good Knowledge in NBA Criteria 1 to 7 (Program Specific) ▪ IQAC Functioning and NAAC Criteria ▪ Internet and Web Technologies (HTM5, CSS3, Java Script, JQuery, JSON, Angular JS) ▪ Open Source Software (PHP, MySQL, Python) ▪ Advanced Java Programming ▪ Data Analytics using Hadoop ▪ Web development using Wordpress
Guest Lectures Delivered	Delivered Guest Lectures in the following Areas ▪ Open Source Software ▪ Open Source Tools and Components ▪ Object Oriented Programming ▪ J2EE Technologies ▪ Web Development using Wordpress ▪ Internet & Web Technologies
Membership in Professional Societies	▪ ISTE Life Member ▪ CSI Life Member ▪ Life Member - Indian Society of Systems for Science & Engineering (ISSE)

Signature

(Dr. G. SIVAKUMAR)