

# RESUME

**Dr. NANDINI S**

**B.E, M.Tech, PhD in Computer Science and Engineering**

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<b>Education</b>	<b>Degree</b>	<b>Institution, University</b>	<b>Class Obtained</b>	<b>Year</b>
	B.E. Computer Science and Eng.	Nagarjuna college of Engineering and Technology VTU	FC	2004-2008
	M.Tech Computer Science and Eng.	SJC Institute of Technology, VTU	FC	2008-2010
	Ph.D. Computer Science and Engg.	R&D Centre BIT, VTU	Completed	Jan-2024
	<b>Title of the PhD: “A Secure and Energy Efficient Data Aggregation Approaches to Enhance Network Lifetime in WSN-IoT”</b>			
<b>Experience</b>	<b>Nature of Experience</b>	<b>No. of Years</b>		
	Teaching	15		
<b>Experience Details</b>	<b>Designation</b>	<b>Institution/ Organization</b>	<b>Duration</b>	
	Lecturer in ISE Dept.	SJC Institute of Technology Chickballapur	March 2010 - Oct 2011	
	Assistant Professor in ISE Dept.	SJC Institute of Technology Chickballapur	Oct 2011 - Jan 2024	
	Associate Professor in ISE Dept.	SJC Institute of Technology Chickballapur	Feb 2024 to Till Date	
<b>Professional Responsibilities</b>	<ul style="list-style-type: none"> <li>● NBA criteria 2 Coordinator</li> <li>● NACC criteria2 Coordinator</li> <li>● Research and Development coordinator</li> <li>● Sports Coordinator</li> <li>● LIC coordinator at department level</li> <li>● IQAC Member</li> <li>● Placement Coordinator at department level</li> </ul>			

	<ul style="list-style-type: none"> <li>● Cultural Coordinator for the department since 2019</li> <li>● Member of Disciplinary Team @ SJGIT</li> <li>● Internal Test Coordinator</li> <li>● Internal and External Examiner - Practical Examinations - for VTU.</li> <li>● Valuator - VTU.</li> <li>● Class Counsellor</li> <li>● Class Teacher.</li> <li>● Project Guide</li> </ul>
<b>Subjects Taught</b>	<p>Programming In C and Data structures[15PCD13/23],Discrete Mathematical Structures[17CS36],Data Structures[18CS32], graph theory and combinatorics, Object Oriented Concepts[18CS45], Advanced JAVA and J2EE[17CS553], Data Communication[10CS46], computer networks, Automata Theory and Computability[15CS54,18CS54],File Structures[10IS63,15IS62,17IS62,18IS61], storage area networks, Cryptography(18CS744),Automata theory and compiler Design, object oriented programming with Java, Data science and visualization.</p>
<b>Areas of Research Interest</b>	<p>WSN , IoT.</p>
<b>Work Shops/ FDPs/ Seminars Attended</b>	<ul style="list-style-type: none"> <li>● Attended three days’ workshop on “<b>Software Defined Data Centre</b> “conducted at S.J.C.I.T, Chickballapur during 9/01/2014 to 10/01/2014.</li> <li>● Attended one day workshop on “<b>Principles of pedagogy for effective instructions dissemination</b>” at S.J.C.I.T, Chickballapur during 19/07/2014.</li> <li>● Attended one day workshop on “<b>HR and quality in Technical Education</b> “organized at S.J.C.I.T, Chickballapur.</li> <li>● Attended three days’ workshop on “<b>ARM 9/11 Architecture and its applications</b> “conducted at S.J.C.I.T, Chickballapur.</li> <li>● Attended One day workshop on “<b>Agile Technologies</b> “organized by Dept of CSE at S.J.C.I.T, Chickballapur during 23/07/2016.</li> <li>● Attended two days’ workshop on “<b>Engineering Pedagogy</b> “organized by Dept of ECE at S.J.C.I.T, Chickballapur during 15<sup>th</sup>-16<sup>th</sup> December 2016.</li> <li>● Attended two days’ workshop on “<b>Innovation in Teaching &amp; Learning in Higher Education</b> “conducted at S.J.C.I.T, Chickballapur during 28<sup>th</sup> -29<sup>th</sup> December 2017.</li> <li>● Participated in ISTE State level Faculty convention organized by S.J.C.I.T, Chickballapur during 4/02/2020.</li> <li>● Attended one day webinar on “<b>Turnitin</b> “conducted at S.J.C.I.T, Chickballapur during 13/08/2020.</li> <li>● Attended Workshop on “<b>Writing a competitive Research Grant Proposal</b>“ on 27<sup>th</sup> April 2020</li> <li>● Participated in webinar on “<b>Industrial Process of Software Testing and Framework</b>” on 30<sup>th</sup> May 2020 at SJBIT.</li> <li>● Participated in webinar on “<b>Paradigm shift to foster excellence in higher education</b>” on 27<sup>th</sup> oct 2020 organized by the oxford college of science.</li> <li>● Participated in national webinar on “<b>Patent-Tips &amp; Tricks</b>” on 4<sup>th</sup> july 2020.</li> <li>● Attended Workshop on “<b>Artificial Intelligence and Machine Learning</b>” from 17<sup>th</sup> to 26<sup>th</sup> Dec 2020.</li> <li>● Attended FDP on “<b>Faculty development and self-evaluation</b>“ from 9<sup>th</sup> and 10<sup>th</sup></li> </ul>

march 2021

- Attended Workshop on “**Data analytics in machine learning techniques**“ from 22<sup>nd</sup> to 27<sup>th</sup> march 2021
- Attended FDP on “**Soft skills training program for faculty**“ on 20<sup>th</sup> may 2021.
- Participated in the webinar on “**Intellectual property rights in research and innovation**“ on 27<sup>th</sup> May 2021
- Participated in Faculty development program on “**Advancements in Security using Deep Learning**” from 21<sup>st</sup> to 25<sup>th</sup> March, 2022 organized by GMRIT.
- Participated in five days online FDP on “**Cyber security and Block chain Technologies**”, organized by east point college of engineering and Technology, Bengaluru held from 5<sup>th</sup> to 9<sup>th</sup> April 2022.
- Participated in one day workshop on “**Fine Tuning of NEP Compliances Syllabus Disciplines under CSE Board of VTU**” at SJCIT on 20th April 2022.
- Participate one week AICTE-VTU Joint Teacher Training Programme on “**An overview of teaching Techniques in data science and analytics**” from 25<sup>th</sup> to 29<sup>th</sup> April 2022 organized by VTU-HRDC, muddenahalli.
- participated and successfully completed the 5-day online FDP on the theme “**Inculcating Universal Human Values in Technical Education**” organized by All India Council for Technical Education(AICTE) from 9<sup>th</sup> May, 2022 to 13<sup>th</sup> May, 2022.
- Completed free online course “**Python Fundamentals for beginners** “on May 2022,Great Learning.
- Participated in the webinar on “**Body Sensor Networks** “organized by Wireless Networks research group of SCSE, Galgotias University, on 1<sup>st</sup> June 2022.
- Completed course “**Database Management system part1 and part2** “on July 14<sup>th</sup> 2022, Infosys Springboard.
- Attended 5 days global E-FDP on “**Unleashing Research Potential: global Trends and Practices**” Organized by galgotias university from March 7-11.2022.
- Participated and successfully completed 5 days Faculty Development Program on “**ART OF RESEARCH PAPER WRITING AND IPR- Level 2**” from 20/09/2022 to 24/09/2022 organized by Department of Information Science and Engineering SKIT in association with Technical Institute for Engineers (TIE), Bangalore.
- Participated and successfully completed One Week AICTE–VTU Joint Teachers Training Programme on “**Introduction to Python Programming & its Applications**” from 13<sup>th</sup> to 17<sup>th</sup> March 2023 Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur.
- Participated in ‘**FEEL Teacher-Communication**’ Learning and Development Intervention, organized by SJCIT, Conducted by College for Leadership and HRD, Mangalore from 25 through 27 May 2023.
- Participated in Technically Sponsored by KSCST Bangalore one day national level Seminar on “**Innovation and IPR**” organized by SVCE on 30<sup>th</sup> June 2023.
- Participated in the DST Sponsored five days National level FDP on “**Generative AI and Cyber Security**” held from 24<sup>th</sup> to 28<sup>th</sup> July, 2023.
- Participated in 10 Hours International Faculty Development Program on **Machine Learning and Artificial Intelligence** organized by Pimpri Chinchwad College of

	<p>Engineering and Research, Ravet, Pune – Maharashtra, Sri Venkateswara Degree College, Kadapa - Andhra Pradesh, SJB Institute of Technology, Bangalore – Karnataka ( 12th Aug to 19th Aug 2024).</p> <ul style="list-style-type: none"> <li>● Participated and completed ATAL FDP on <b>Quantum computing: pioneering innovations in modern computer technology</b> at university BDT college of engineering from 9/12/24 to 14/12/24</li> <li>● Participated and completed ATAL Faculty Development Program on Quantum Computing – Research Perspective in Healthcare Applications at P.S.R. Engineering College from 16/12/2024 to 21/12/2024</li> <li>● Participated in FDP on <b>Gen AI and ChatGPT</b> Application in the industry from 27/1/25 to 31/1/25 organized by SJCIT.</li> </ul>
<p><b>National/ International Conferences Attended</b></p>	<ol style="list-style-type: none"> <li>1. International Conference on <b>Emerging Trends in Science &amp; Technologies for Engineering systems (ICETSTES-2018)</b>, organized by SJCIT, 11<sup>th</sup> and 12<sup>th</sup> January 2018Chickballapur.</li> <li>2. International Conference on <b>Emerging Trends in Science &amp; Technologies for Engineering systems (ICETSTES-2020)</b>, organized by SJCIT, 19<sup>th</sup> July 2020Chickballapur.</li> <li>3. National Conference on <b>Recent Trends in Computer Science &amp; Information Technology (NCRTCSIT-2016)</b> organized by SJCIT, 22nd April 2016Chickballapur.</li> <li>4. National Conference on <b>Recent Trends in Computer Science &amp; Information Technology (NCRTCSIT-2015)</b> organized by SJCIT, 22nd April 2016Chickballapur.</li> <li>5. International Conference in <b>the congress on intelligent systems held during September 4-5, 2021</b>, organized by soft computing research society and CHRIST, Bangalore.</li> </ol>
<p><b>Papers Presented / Published</b></p>	<ol style="list-style-type: none"> <li>1. A paper titled “<b>Decentralized Access control for multi Authority cloud storage</b>” has been Presented in national conference on “Recent Trends in Computer Science and Information Technology” NCRTCSIT-2015 held on 23<sup>rd</sup> and 24<sup>th</sup> of april 2015 at SJCIT, chickballapur.</li> <li>2. A paper titled “<b>BIG DATA FOR CONTEXT AWARE MONITORING</b>” has been Presented in national conference on “Futuristic Trends in Information Technology-NCFTIT-2016” held on 21<sup>st</sup> and 22<sup>nd</sup> of april 2016 at SJCIT, chickballapur.</li> <li>3. A paper titled “<b>An advanced clustering Algorithm</b>” has been Presented in national conference on “Futuristic Trends in Information Technology-NCFTIT-2016” held on 21<sup>st</sup> and 22<sup>nd</sup> of april 2016 at SJCIT .chickballapur.</li> <li>4. A paper titled “<b>Lifetime aware secure Data aggregation through integrated incentive-based mechanism in IoT based WSN environment</b>” has been Presented and submitted in international conference in the congress on intelligent systems held during September 4-5,2021,organized by soft computing research society and CHRIST,Bengalore.</li> <li>5. Published a research paper entitled “<b>REAL TIME DRIVER ADVISORY MODEL-INTELLIGENT TRANSPORTATION SYSTEM USING RFID</b>” in the international journal of scientific research in science, engineering and Technology (IJSRSET), volume 9, Issue 4,july –August-2021.</li> <li>6. A paper titled “<b>IT PLATFORM ENABLED SUBMISSION OF GENUINE AND ANONYMOUS TIP-OFFS</b>” has been published in IRJMETS, Volume 4, Issue 6, and June 2022.</li> </ol>

	<ol style="list-style-type: none"> <li>7. A paper titled “<b>Financial Transaction Management for NGO using Block Chain</b>” has been published in IJAR SCT, volume 3, Issue 8, and April 2023.</li> <li>8. Published a research paper entitled “<b>Secure and efficient data aggregation using novel Integrated Incentive based Mechanism in WSN Environment</b>” in INT-JECS, volume 14, issue 3,2022.</li> <li>9. Published a research paper entitled “<b>A NOVEL PRIVACY AND RELIABLE AGGREGATION FRAMEWORK IN WSN BASED IOT ENVIRONMENT</b>” in the Journal of Data Acquisition and Processing, volume 38, issue2, 2023.</li> <li>10. A paper titled “<b>User Behaviour Characterization using Mobile Internet Usage</b>” has been published in IJAR SCT, volume 3, Issue 4, and May 2023.</li> <li>11. Published a research paper entitled “<b>PRIVACY-aware Secured discrete framework in Wireless Sensor Network</b>” in the International journal of Electrical and Computer Engineering (IJECE), volume 14, No. 1, February 2024, pp.75-75, ISSN:2088-8708.</li> <li>12. A paper titled ” <b>Ransomware Readiness Assessment Tool</b>”, has been published in International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT), Volume 4, Issue 1, May 2024, DOI: 10.48175/IJAR SCT-18062.</li> <li>13. Published a research paper entitled”<b>AI Assisted Tele-Medicine KIOSK</b>”, 2024, 12:2 ISSN (Online): 2348-4098, ISSN (Print): 2395-4752, International Journal of Science, Engineering and Technology.</li> <li>14. A research paper entitled “ <b>Integrating deep learning for crop Recommendation and plant disease detection</b>” has been published in nanotechnology perception journal, ISSN 1600-6795,2024.</li> </ol>
<b>Patents</b>	Design patent on “ <b>AI-Powered IOT Devices for Agricultural Applications</b> ” on 2024.
<b>Certification Program</b>	<ul style="list-style-type: none"> <li>• Completed online course on “<b>Master data structure &amp; algorithms on java</b>“ on May 2021</li> <li>• Completed NPTEL Online certification Course on “<b>Programming in JAVA</b>” from Jul-Oct 2022 with consolidated score of <b>81%</b></li> <li>• Successfully completed a course on “<b>cyber safety and Best Practices of Responsible Browsing</b>” and has secured <b>A</b> grade on 30<sup>th</sup> Sep, 2023.</li> <li>• Completed NPTEL course of 12 weeks on <b>Introduction to Automata and Computation</b> with scores of <b>88%</b> .(Jan-April 2024)</li> <li>• 21-days masterclass on <b>NVIDIA-AI hardware</b> at Pantech eLearning Pvt Ltd, from 15.07.2024 to 05.08.2024</li> <li>• successfully completed <b>CCNA: Introduction to Networks</b> offered by EdCreate Foundation through the Cisco Networking Academy program.</li> </ul>
<b>Sports</b>	<ul style="list-style-type: none"> <li>• Secured First place in State Level Throw ball championship.</li> <li>• Secured Second place in National Level Throw ball championship.</li> <li>• Secured First place in Throw ball championship held at SJCIT</li> <li>• Secured Second place in running held at SJCIT</li> <li>• Secured Second place in ball throws held at SJCIT</li> <li>• Secured First place in reach the target held at SJCIT</li> <li>• Secured Second place in shot-put held at SJCIT</li> </ul>

<b>Project Works Guided</b>	<b>Project Works Guided: 24 BE projects</b>
<b>Membership</b>	<b>IETE Membership</b>
<b>Awards</b>	<ul style="list-style-type: none"> <li>• Achieved 100% results in the subject FS of 6<sup>th</sup> sem in the university exams held during the academic year 2022-23.</li> <li>• Achieved 100% results in the subject SAN of 8<sup>th</sup> sem in the university exams held during the academic year 2022-23.</li> <li>• Reviewer for <b>International Conference on Knowledge Engineering and Communication Systems(ICKECS 2024)</b>,IEEE conference.</li> <li>• Session Chair at <b>International Conference on Knowledge Engineering and Communication Systems(ICKECS2024)</b>,IEEE conference on 18th &amp;19th April 2024 at SJCIT.</li> <li>• Reviewer for r <b>3rd IEEE International Conference on Knowledge Engineering and Communication Systems (ICKECS-2025)</b></li> <li>• Reviewer for <b>2nd International Conference on Data Science &amp; Exploration in Artificial Intelligence (CODE-AI 2025)</b>.</li> <li>• Reviewer for <b>2nd International Conference on Data Science &amp; Exploration in Artificial Intelligence.</b></li> </ul>

➤ Currently working as Associate Professor in Information Science & Engineering. (from 2010 to till date) and total 15 years of experience.

**Place: Chickballapur**

**Dr. Nandini S**