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|                                                                                   | <p><b>Profile</b></p> <p>Mrs. Hemalatha P received her bachelor of Engineering degree in Electronics and Communication Engineering from Sri Venkateswara College of Engineering and Technology, RVS Nagar, Chittoor, JNTUA University, Anantapur-515002, Andhra Pradesh, India in 2010. She completed MTech in Embedded Systems from Sir Vishveshwaraiah Institute Of Science &amp; Technology,Angallu, Madanapalle. JNTUA University, Anantapur-515002, Andhra Pradesh, India in 2014. Pursuing her Ph.D. from Gitam University, Vizag and her research area includes Wireless Sensor Networks. She has worked in various reputed colleges in the city and has 7.8 years of teaching experience. She has also organized many technical talks and seminar by inviting experts, professors and scientists from diverse fields, covering technical and non-technical aspects. She has taken up many responsibilities like Mini project coordinator, conducting skill lab, department level sports activities etc.</p>                                                                                                                                                                                                                                                                                                                                |
|                                                                                   | <p><b>Publications:</b></p> <ol style="list-style-type: none"> <li>1. Hemalatha P 1, (2026), “TAS2MOO-ICRL: A Traffic and Security-Aware Multi-Objective Optimization Framework Using Inverse Constrained Reinforcement Learning for Energy Management in Wireless Sensor Networks”, Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA), volume: 17, number: 2 (June-2026), pp. 264-282. DOI: 10.58346/JOWUA.2026.I2.015.</li> <li>2. Hemalatha P 1, (2025), “AS2ICRL: Energy Management Model using Inverse Constrained Reinforcement Learning based Adaptive Sleep Scheduling in Wireless Sensor Networks”, Journal of Internet Services and Information Security (JISIS), Volume 2, Issue ISSN:2182-2069/E-ISSN:2182-2077Pagespp.964-984.</li> <li>3. Hemalatha P 2, (2025), “Enhancing Affective Modelling through Preprocessing: A Comparative Review for Valence and Arousal Estimation”, Journal of Environmental Sciences 11 (2229-7359)</li> <li>4. Hemalatha P 3, (2025), “Kubernetes: Revolutionizing Container Orchestration in Modern Cloud Infrastructure”, Journal of Environmental Sciences 11 (2229-7359).</li> <li>5. Hemalatha P 1 (2025), “A Survey On Enhancing Network Lifetime And Energy Efficiency In Wireless Sensor Networks Using Machine Learning Algorithms”,</li> </ol> |

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|  | <p>2025 International Conference on Metaverse and Current Trends in Computing (ICMCTC), IEEE, 979-8-3315-3821-7/25/\$31.00 ©2025 IEEE.</p> <p>6. P. Hemalatha 1, (2025).” Enhancing Sensor Network Lifetime through Optimal Path Selection and Cluster Head Optimization using Energy-Aware Routing”, Communications on Applied Nonlinear Analysis, 9 (1074-133X), 2517-2530.</p> <p>7. P. Hemalatha, 2 (2022).”Design of Logically Secured ALU Using QCA Technology”, Journal of Emerging Technologies and Innovative Research, ISSN NO-2349-5162,Volume-9,Issue-11,November-2022.</p> <p>8. P. Hemalatha, 2 (2021).”Low Power 4*4 Using Dadda Algorithim and Optimized Full Adder”, International Journal of Research, ISSN No.2348-6848,volume 8,Issue-12,Dec.2021.</p> <p>9. P. HemaLatha, 2 (2019). “Sensor Based Wearable System For paralytic Monitoring Using IOT”, International Journal of Research, ISSN NO:2236-6124, Volume VIII, Issue VI, JUNE/2019.</p> <p>10. P. Hemalatha , 2 (2018). “Designing of Pentanomial Error Tolerant Adder with Low Power and High Speed”, International Journal &amp; Magazine of Engineering, Technology, Management and Research A Peer Reviewed Open Access International Journal, ISSN No: 2348-4845, Volume No: 5 (2018), Issue : 4 (April) April 2018.</p> <p>11. P. Hemalatha 2 (2017). “IOT BASED Water Quality Monitoring System”, International Journal Of Research in Advent Technology, E-ISSN: 2321-9637, V.1092- January 2017.</p> <p>12. Hemalatha. P 1, (2014). “Face Recognition And Sound Localization on Embedded Soc”, IJEEC: International Journal Of Electrical Electronics And Communication, ISSN 2048 – 1068, Volume: 07 Issue: 25 I Nov -2014.</p> |
|  | <p><b>Patents:</b></p> <ol style="list-style-type: none"> <li>1. “ALGOVIZ: Artificial Intelligence Based Algorithim Visualization and Learning System”, Indian Patent Application No. 202641044918, Published on 8 April 2026.</li> <li>2. “A Sensor-Free Real Time System and Method for Sign Language Detection and Multi-Lingual Translation”, Indian Patent Application No. 202541133118, Published on 9 January 2026.</li> <li>3. “Bio Adaptive smart air poles with self learning AI for urban air quality Management using IOT” Indian Patent Application No: 202541103933 on 28 November 2025.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | <p><b>Recognitions:</b></p> <ul style="list-style-type: none"> <li>• Successfully Completed Course “Foundation of Deep Learning: Concepts and Applications” in NPTEL on Jan-Apr 2026.</li> <li>• Successfully Completed Course “Introduction to Machine Learning” in NPTEL on Jul-Oct 2025.</li> <li>• Successfully Completed all requiriments to be Certified Globally as “Snowpro Associate” Platform on 22 April 2026.</li> <li>• Attended the Summer Intership &amp; Technical Training Program conducted by India Space Lab from 17 June 2026 to 6 July 2026.</li> <li>• Organized and attended two days workshop on Fundamentals of Electromagnetic, “Demonstration and Simulation of RF and Microwave components Using HFSS”.</li> <li>• “Role of Science Communicators in Enhancing public engagement with Science and technology”-National Conference</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|  | <ul style="list-style-type: none"> <li>• Attended the Webinar on "CMOS Integrated Full-Duplex Radios". Webinars and Workshops.</li> <li>• Participated in an online Webinar on "Think Different".</li> <li>• Participated in an online Webinar on "Getting Started with Docker and Amazon Web Services Hands on Training".</li> <li>• Participated the International Webinar Session on "Fault Analysis &amp; Protection of Smart Grid".</li> <li>• Participated in Webinar Sessions on "Wavelets And Their Applications".</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  | <ul style="list-style-type: none"> <li>• Attended AICTE Sponsored FDP on “Quantum Communication: Recent Progress and Future Research Direction” at National Institute of Technology, Tiruchirappalli from 19/01/2026 to 24/01/2026.</li> <li>• Attended AICTE Sponsored FDP on “Future Ready AI Emerging Technologies and their Societal Transformations” at A.M.C. ENGINEERING COLLEGE from 03/02/2025 to 08/02/2025.</li> <li>• Attended AICTE Sponsored FDP on “5G: Future Impact, Ai Coherence And Adherence To Digital Connectivity” at Vivekananda Institute Of Technology from 25/08/2025 to 30/08/2025.</li> <li>• Attended Oracle Cloud Infrastructure 2025 Certified “AI Foundations Associate” on September 07, 2025.</li> <li>• Participated in the Five Days-Online Faculty Development Program on “Next Generation Data Science: From Analytics to Agentic AI” organized by the Department of CSE-Data Science, East Point College of Engineering and Technology from 6th July 2026 to 10th July 2026.</li> <li>• Participated in a Five-day Faculty Development Program on “FullStack Development &amp; DevOps: From Code to Cloud”, organized by the Department of Computer Science and Engineering, East Point College of Engineering and Technology, Bengaluru, held from 28th January 2025 to 1st February 2025.</li> <li>• Attended AICTE Sponsored FDP on “Machine Learning In Image Processing Applications”.</li> <li>• Attended AICTE Training And Learning(ATAL) Academy Online FDP on "Robotics".</li> <li>• Participated Online one week short term Course in the title "Artificial Intelligence".</li> <li>• Participated in a National Level three day online FDP on “Digital Image processing &amp; Its Applications”.</li> <li>• Participated in a 40-hour online FDP on “Application of AI&amp;ML in Signal Processing and Communications” GOI organized by E&amp;ICT Academy, NIT Warangal and GITAM, Vizag, during 23rd-30th June-2022.</li> <li>• “Emerging Trends in VLSI Design &amp; Practical Approach”-FDP1-Week.</li> <li>• “Block Chain and its Application”- FDP 5-days</li> <li>• One Week Online FDP program on “Enhancing Faculty Expertise: Communication and Signal/Image processing (EFECIP – 2023)” during 10th – 15th July 2023.</li> <li>• Participated in “A One Week National Level Faculty Development Program on Recent Advances in Electronics and Communication Engineering – An approach through AI &amp; ML” during 21st to 26 th August 2023.</li> </ul> |

|  | <b>Achievements</b>                                                                                                                                                                                                                        |
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|  | <ol style="list-style-type: none"><li>1. International Association of Engineers, (IAENG), Hong Kong, LM 126794 (Since).</li><li>2. Member # 102411083, Bangalore Section, IEEE Member for 1 year Valid through 31 December 2026.</li></ol> |