


## Faculty Profile

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|---------------------------------|--|--|---|
| Name of the Teaching Staff      | Dr. Shantala C P   |  |  |
| Department                      | CSE  |  |   |
| E-mail                          | shantala.cp@cittumkur.org  |  |   |
| Present Designation             | Professor and Head   |  |   |
| Google Scholar ID               | hTX9ZAI AAAAJ  |  |   |
| ORCID                           | 0000-0003-3587-427X  |  |   |
| VIDWAN ID                       | 201490   |  |   |
| Education Qualifications        | <ol style="list-style-type: none"> <li>1. UG- BE</li> <li>2. PG- M.Tech</li> <li>3. Ph.D- Computer science &amp; Engineering</li> </ol>  |  |   |
| <b>Work Experience in Years</b> |  |  |   |
| Teaching                        | 24   |  |   |
| Research                        | Nil  |  |   |
| Industry                        | 01   |  |   |
| Other                           | Nil  |  |   |
| Total                           | 25   |  |   |
| Area of Specialization          | Computer Science & Engineering   |  |   |
| Publication Details             | <p><b>International Journal</b></p> <ol style="list-style-type: none"> <li>1. Novel Modeling of Efficient Data Deduplication for Effective Redundancy Management in Cloud Environment, Anil Kumar G and Shantala C.P, Lecture Notes in Networks and Systems, Volume 444, Year 2022, Pages 479-490 DOI:10.1007/978-981-19-2500-9_36</li> <li>2. EEG artifacts detection and removal techniques for brain computer interface applications: a systematic review", Rashmi C R and Shantala C P, International Journal of Advanced Technology and Engineering Exploration, Volume 9, Issue 88, ISSN 2394-7454, 2022</li> <li>3. Novel Modelling of the Hash-based Authentication of Data in Dynamic Cloud Environment, Anil Kumar G and Shantala C.P International Journal of Advanced Computer Science and Applications(IJACSA), 12(3), 2021.</li> <li>4. An extensive research survey on data integrity and deduplication towards privacy in cloud storage, Anil Kumar G and Shantala C.P. International Journal of Electrical and Computer Engineering, 10(2), p.2011, 2020. 10.11591/IJECE.V10I2.PP2011-2022. ISSN: 2088-8708</li> <li>5. DOCUMENT CLUSTERING TECHNIQUES USING HADOOP FRAMEWORK: A SURVEY, Ashwini, K. S., and C. P. Shantala, IJRAR-International Journal of Research and Analytical Reviews (IJRAR) 7.1 (2020): 663-663, ISSN: 2348-1269</li> <li>6. Framework towards Higher Data Privacy by Novel Data Integrity Scheme, Anil Kumar G. &amp; Cp, Shantala, 2020.</li> <li>7. Steganographic Standards for Key Sharing in 46 Habit Drug Monitoring System, Shantala.C.P. K.V. Viswanatha, International journal of Advanced foundation and research in computer, ISSN:2348-4853</li> </ol> |  |   |

8. Secure SDN frame work for data exfiltration via video steganography, Shantala.C.P. K.V. Viswanatha, International journal of computer and technology, ISSN: 2277-3061.
9. Software defined network based forensic System for concealed Communication Detection, Shantala.C.P. K.V.Viswanatha, I-Managers journal on software Engineering, Vol-9, No-2, Issue-Oct-Dec-2014, PP 1-8(Published in Aug 2015)
10. Replication based disaster recovery in virtual machines, shantala.C.P, Netra.H.L, International of advanced research in Computer Engineering and Technology, Vol-4, Issue-5, May 2015, PP 2096-2100, ISSN:2278-1323
11. Dynamic management of virtual machines for server consolidation in data centers, Shantala.C.P, Ashwini.K.S, Journal of advanced research in computer engineering and technology, Vol-4, Issue-5, may-2015, PP 284-287
12. Automatic drug reaction detection using sentimental analysis, Shantala.C.P, Sahana.D.S, International Journal of advanced research in computer engineering and technology, Vol-4, Issue-5, may-2015, PP 2163-2170, ISSN: 2278-1323
13. Comparison of system and network monitoring tools, Shantala.C.P, Vidya.J, International journal for scientific research and development, Vol-3, issue, 4, june 2015, ISSN:2321-0613
14. Brief critical analysis of Devops tools, Shantala.C.P, Akshaya.H.L, International journal for scientific research and development, Vol-3, issue, 4, june 2015, ISSN:2321-0613
15. Comparison of Devops Log monitoring tools, Shantala.C.P,Nisarga Jagadish.S, International journal for scientific research and development, Vol-3, issue, 4, june 2015, ISSN:2321-0613
16. Secure Video steganalysis to detect hidden communication between virtual machines in cloud, shantala.C.P, shwetha.B.N, International journal of advanced research in computer engineering and Technology, Vol-4, issue-5, may2015, PP2124-2129, ISSN:2278-1323
17. Effective Verification and encryption of data for users delegation privacy, international journal of engineering trends and technology, vol-10, no-9, April 2014, ISSN: 2231-5381
18. Multiuser Access control for online social medias:beyond single user protection, International journal of Engineering Research and Technology(IJERT), Vol-3, Issue. 04, April-2014, ISSN: 2278-0181, www.ijert.org
19. A Scalable and Efficient access control in cloud with Multi-Authority attribute based Encryption, International journal of Engineering Research and Technology(IJERT), Vol-3, Issue. 04, April-2014, ISSN: 2278-0181, www.ijert.org
20. Advanced Steganography for lossy Compression images , International Journal, IJCRYPTO special issue on Steganography, Shantala.C.P and Dr K.V. Vishwanatha, volume-02, number 1, Jan 2009, Eashwar Publications.
21. Lung Nodule Segmentation for Computer Aided Diagnosis, International Journal of Engineering Science and Advanced technology(IJESAT), Vol-02, Iss.-04; Jul-Aug 2012, ISSN 2250-3676
22. Different steganography methods and their performances, Shantala.c.P, K.V. Viswanatha, IJEI-International journal of engineering inventions, Volume-02, Issue 1, Jan 2013 edittion.
23. Fields of File records in the root Directory for Data Hiding, International journal of Advanced research in Computer science and Software Engineering, Shantala C.P and Visvanatha.K.V, Volume 4, Issue 1, Jan 2014, ISSN: 2277 128X, www.ijarcsse.com.
24. A secure monitoring of 46 Habit drugs using Abe in cloud, International journal of Advanced research in Computer science and Software Engineering, Shantala C.P and Asif Ulla Khan, Volume 4, Issue 3, March 2014, ISSN: 2277 128X, www.ijarcsse.com.
25. BCI-AMSH: A MATLAB based open-source brain computer interface assistive application for mental stress healing, Rashmi C R, Dr. Shantala C P, e-Prime - Advances in Electrical Engineering, Electronics and Energy, Volume 6, 2023, 100323, ISSN 2772-6711, <https://doi.org/10.1016/j.prime.2023.100323>. (Elsevier)
26. Evaluating Deep Learning with different feature scaling techniques for EEG-based Music Entrainment Brain Computer Interface, Rashmi C R, Dr. Shantala C P, e-Prime - Advances in Electrical Engineering, Electronics and Energy, Volume 7, 2024, 100448, ISSN 2772-6711, <https://doi.org/10.1016/j.prime.2024.100448>. (Elsevier)

**National Journal**

1. Advanced Steganography for lossy compression images, Shantala.C.P, Viswanatha.K.V, Indian journal of Engineering Science and technology, Vol 4, No 2, july –dec-2010
2. Finger Print Recognition and matching using minutiae techniques and artificial Neural networks, Shantala.C.P, Suresh.D.S, Uday Shankar, Vol. 1 No 4 may july 2006 PP 12-18.

**International Conferences**

1. "Cognitive Stress Recognition During Mathematical Task and EEG Changes Following Audio-Visual Stimuli for Relaxation," Rashmi C R, Dr. Shantala C P, 2023 International Conference on Sustainable Communication Networks and Application (ICSCNA), Theni, India, 2023, pp. 612-617, doi: 10.1109/ICSCNA58489.2023.10370715. (Scopus)
2. "Deep Neural Network Based Discrimination of Mental States During Real-Time Posture Yoga Using EEG," Rashmi C R, Dr. Shantala C P, 2023 International Conference on Sustainable Communication Networks and Application (ICSCNA), Theni, India, 2023, pp. 1190-1195, doi: 10.1109/ICSCNA58489.2023.10370460.
3. Sentimental Analysis On Covid-19 Tweets using Bidirectional Encoder Representations Transformers, JP Deekshitha, R Shankar, CP Shantala, L Girish, 2021 IEEE International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS).
4. Framework Towards Higher Data Privacy by Novel Data Integrity Scheme, G Anil Kumar, CP Shantala, Cognitive Informatics and Soft Computing: Proceeding of CISC 2020, 2021.
3. Vehicle Density Analysis and Classification using YOLOv3 for Smart Cities, Rashmi, C. R., and C. P. Shantala, 2020 4th International Conference on Electronics, Communication and Aerospace Technology (ICECA). IEEE, 2020. 10.1109/ICECA49313.2020.9297561. ISBN: 978-1-7281-6386-4
4. Mind controlled wireless robotic arm using brain computer interface, Shantala, C. P., and C. R. Rashmi, 2017 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC). IEEE, 2017. 10.1109/ICCIC.2017.8524431. ISBN: 978-1-5090-6621-6
5. Steganographic Standards for Key Sharing in 46 Habit Drug Monitoring System, Shantala.C.P. K.V. Viswanatha, International conference on Communication, information and computing technology, May 12th-13th at Global Institutes, Amritsar.
6. School Class Monitoring System Based on Audio Signal Processing, Rashmi C Ra 1\*, Prof. Shantala C Pb, T R Yashavanthc, International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA- 13), received confirmation.
7. Automated Localization of Optic Disc and Blood Vessels Extraction in Retinal Images, Divya C2 \*, Prof. Shantala C Pb, International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA- 13), received confirmation.
8. Efficient and secure data transfer using JPEG image based Steganography, Shantala.C.P, Viswanatha.K.V, International conference on Future security, Berlin, sep 5th-7th 2011.
9. Hiding data into the directory structure of a file, Shantala.C.P, Viswanatha.K.V, International conference on informatics, cybernetics and computer applications, july 19th-21st 2010.
10. Steganography methods and Techniques, Shantala.C.P, Sheela.S, International conference on IT and Business Intelligence, Nov 6th-8th 2009.
11. Edge Steganography for secure communication, Shantala.C.P, Viswanatha.K.V, region 10 IEEE conference, 14th to 17th nov 2006
12. Web Enabled Centralized for wireless communication using MCF 5272, Shantala.C.P, Suresh.D.S. Udayshankar, International conference MERG-2005, oct 1st-3rd 2005
13. Finger Print enabled image encryption, Shantala.C.P, Suresh.D.S. Udayshankar, International conference MERG-2005, oct 1st-3rd 2005.

**National Conferences**

1. Finger Print Recognition and matching using minutiae techniques and artificial Neural networks, Shantala.C.P.Suresh. D.S, National conference NCAETE-2005, College of Engineering, Osmanabad, feb 25th -26th 2005.
2. Signature verification of any data file, Shantala.C.P, Viswanatha. K.V, National Conference Advance communication techniques and research 2005.
3. Providing legacy IPV4 support in IPV6 network with Network aware mobility, Shantala.C.P, National conference on emerging trends in information technology(NCETIT-2013), Shridevi Institute of Engineering and Technology, sira road, Tumkur, 27th april-2013
4. Location aware cr-mac: a multi channel cross layered concurrent transmissions for cognitive ad-hoc networks, A national conference on "Recent advances in Electrical and electronics Engineering".(NCRAEEE-2013), june 17th -18th, 2013.

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| Professional Memberships                   | <ul style="list-style-type: none"> <li>Life Member, Indian Society of Technical Education, India – LM46037</li> <li>IEEE Member</li> <li>CSI Member – 163211</li> <li>IEI – F1225053</li> </ul>  |
| No. of Books published with details        | Title: Finite Automata and Formal Languages (Under Preparation).   |
| Book Chapters published                    | Nil  |
| Books Published                            | Nil  |
| Reviewer in Journal/Conference             | International conferences - 2  |
| Patents                                    | 2 - Applied  |
| Academic & Administrative Responsibilities | <p>Responsibilities as a Vice-principal</p> <ul style="list-style-type: none"> <li>Provide leadership in managing the college's administrative functions</li> <li>Oversee student affairs, discipline and welfare</li> <li>Supervise and support faculty and staff</li> <li>Address issues and conflicts within college community</li> <li>Represent the college in various forums and events</li> </ul> <p>Responsibilities as a HOD</p> <ul style="list-style-type: none"> <li>Administration of the entire department</li> <li>Supervise and evaluate department faculty</li> <li>Encourage and support faculty research and projects</li> <li>Allocate resources within the department</li> <li>Ensure the quality of instruction and assessments</li> <li>Foster collaborations with other departments and institutions</li> <li>Contribute to the growth and reputation of the department</li> <li>Obtaining funds from various funding agents</li> <li>Planning and Implementation of new courses</li> <li>Organizing and conducting curricular and co-curricular activities</li> <li>Organizing and conducting activities of professional institution</li> </ul> <p>Additional Roles</p> <ul style="list-style-type: none"> <li>Chairman IEI, Tumakuru Local Center</li> <li>Worked as BOE member, VTU</li> <li>Research Committee Member</li> </ul> |
| FDPs & Workshops Attended                  | <ul style="list-style-type: none"> <li>Two days IEEE workshop on "<b>IoT/Wearable Technology</b>" on Sep 7<sup>th</sup> and 8<sup>th</sup> 2017 at Hotel Hilton, Embassy Golf Link, Bangalore.</li> <li>Attended one Day workshop on "<b>Machine Learning</b>" held at SIT, Tumkur</li> <li>2nd Indian "<b>BCI</b>" workshop on November 7<sup>th</sup> and 8<sup>th</sup>, 2015 at Gold finch hotel, Bangalore.</li> </ul>  |
| Awards & Achievements Received             | <ul style="list-style-type: none"> <li>Women Achiever's Award from IEI, Bangalore.</li> <li>Gold medalist and I rank holder in post graduation</li> <li>Merit Awards for being topper during under gradation</li> <li>Best project award from Motorola and Microchip Micro controllers</li> <li>Awarded 3rd place for new innovative idea "<b>IT for AGRICULTURE</b>" from Federation of Karnataka chamber of commerce.</li> </ul>   |
| Ph.D Research Scholar Details              | <b>Guided /Awarded</b>   |
|  | Candidate Name : G Anil Kumar  |
|  | USN : 1CG15PEJ03   |
|  | Title: Novel Framework for Data Integrity and Privacy in Cloud Storage.  |
|  | Year of Award : 2023   |

|   | <b>Ongoing</b>  |
|---|---|
|   | Candidate Name : Mrs. Jyothi K S  |
|   | USN : 1CG18PCS01  |
|   | Title : A Multidomain Learning Scheme for Sentiment Analysis  |
|   | Year of Registration : 2018   |
|   | Candidate Name : Mrs. Ashwini K S   |
|   | USN : 1CG17PES01  |
|   | Title : Enhanced Clustering based approach to optimize the classification of documents using hadoop framework   |
|   | Year of Registration : 2017   |
|   | Candidate Name : Mrs. Rashmi C R  |
|   | USN : 1CG19PCS02  |
|   | Title: A Brain Computer Interface for Interactive and Intelligent Analysis of Brain signals for Assistive Technology and Healing.                         |
|   | Year of Registration : 2019   |
|   | Candidate Name: Mr. Anil Kumar  |
|   | USN : 1CG21PCS01  |
|   | Title : Identity based privacy preserving remote data integrity and secure check mechanism in cloud using secured hash algorithm with designated verifier |
|   | Year of Registration : 2021   |
|   | Candidate Name: Mrs. Vindhya G B  |
|   | USN : 1CG22PCS01  |
|   | Title : Deep Learning for the early detection of liver cirrhosis  |
| <b>Research/Sponsored Projects</b><br>Funds Received & Projects Completed | Name of the Project : <b>Intelli-Track: A Smart Tracking system for Lost objects using RFID Technology</b>  |
|   | Funds Received : <b>Rs. 40,000/-</b>  |
|   | Sponsoring Agency : <b>Vision Group of Science and Technology(VGST)</b>   |
|   | Sanctioned Year : <b>2012-13</b>  |
|   | Current status of the Project (Completed/Ongoing) : <b>Completed</b>  |
|   | Name of the Project: <b>EEG based Brain Computer Interface (BCI) for Assistive Technology</b>   |
|   | Funds Received : <b>Rs. 6,00,000/-</b>  |
|   | Sponsoring Agency : <b>Vision Group of Science and Technology(VGST)</b>   |
|   | Sanctioned Year : <b>2013-14</b>  |

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|                                | Current status of the Project (Completed/Ongoing) : <b>Completed</b>  |
|                                | Name of the Project: <b>Development of Long-Range and High-Speed Wireless Lan for the Transmission of Telemedicine from Disaster Areas</b>                    |
|                                | Funds Received : <b>Rs. 20,00,000/-</b>   |
|                                | Sponsoring Agency : <b>Vision Group of Science and Technology(VGST)</b>   |
|                                | Sanctioned Year : <b>2015-16</b>  |
|                                | Current status of the Project (Completed/Ongoing) : <b>Ongoing</b>  |
| Student Funded Projects Guided | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>KSCST</b>   |
|                                | Funds Received : <b>Rs. 5000/-</b>  |
|                                | Title of the Project : <b>IT SUPPORT SYSTEM FOR KARNATAKA STATE AGRICULTURE MARKETING BOARD</b>   |
|                                | Sanctioned Year : <b>2011-12</b>  |
|                                | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>KSCST</b>   |
|                                | Funds Received : <b>Rs. 4500/-</b>  |
|                                | Title of the Project : <b>A SECURE ATM SYSTEM USING DELAY CONSTRAINT AND GSM MODULE</b><br>"Awarded as the Project of the Year in 37th Series SPP Exhibition" |
|                                | Sanctioned Year : <b>2013-14</b>  |
|                                | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>KSCST</b>   |
|                                | Funds Received : <b>Rs. 4500/-</b>  |
|                                | Title of the Project : <b>46 HABBIT FORMING DRUGS</b><br>"Awarded as the Project of the Year in 37th Series SPP Exhibition"                                   |
|                                | Sanctioned Year : <b>2013-14</b>  |
|                                | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>KSCST</b>   |
|                                | Funds Received : <b>Rs. 4500/-</b>  |
|                                | Title of the Project : <b>Intelligent Internet Of Things(Iot) Frameworks For Smart City</b>   |
|                                | Sanctioned Year : <b>2014-15</b>  |
|                                | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>KSCST</b>   |
|                                | Funds Received : <b>Rs. 4000/-</b>  |
|                                | Title of the Project : <b>Indoor Navigation with Hazard Detection using Augmented Reality</b>   |
|                                | Sanctioned Year : <b>2022-23</b>  |
|                                | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>KSCST</b>   |
|                                | Funds Received : <b>Rs. 4000/-</b>  |
|                                | Title of the Project : Decentralized crowd funding using Block chain Smart Contract   |

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|                           | Sanctioned Year : <b>2023-24</b>  |
|                           | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>KSCST</b>   |
|                           | Funds Received : <b>Rs. 4500/-</b>  |
|                           | Title of the Project : <b>Cyber Poll Protection Fortifying Elections against Virtual Tampering</b>                    |
|                           | Sanctioned Year : <b>2023-24</b>  |
|                           | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>KSCST</b>   |
|                           | Funds Received : <b>Rs. 4500/-</b>  |
|                           | Title of the Project : <b>Real-time Location based Dynamic Digital Advertisement using Mobile Application</b>         |
|                           | Sanctioned Year : <b>2017-18</b>  |
|                           | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>VTU</b>   |
|                           | Funds Received : <b>Rs. 5000/-</b>  |
|                           | Title of the Project : <b>An Adaptable and Predictable Matching Service for Content based Publishing Data Systems</b> |
|                           | Sanctioned Year : <b>2018-19</b>  |
|                           | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>VTU</b>   |
|                           | Funds Received : <b>Rs. 5000/-</b>  |
|                           | Title of the Project : <b>Traffic Rules Violation Detection by Number Plate Extraction</b>                            |
|                           | Sanctioned Year : <b>2019-20</b>  |
|                           | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>VTU</b>   |
|                           | Funds Received : <b>Rs. 5000/-</b>  |
|                           | Title of the Project : <b>University Labs Administration and Automation using DevOps</b>                              |
|                           | Sanctioned Year : <b>2019-20</b>  |
|                           | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>VTU</b>   |
|                           | Funds Received : <b>Rs. 5000/-</b>  |
|                           | Title of the Project : <b>Face Mask Detection and Alerting System using Deep Learning</b>                             |
|                           | Sanctioned Year : <b>2020-21</b>  |
|                           | Sponsoring Agency (KSCST/VTU/Others, Please Specify) : <b>VTU</b>   |
|                           | Funds Received : <b>Rs. 5000/-</b>  |
|                           | Title of the Project : <b>Crude oil Price prediction and forecasting using deep learning</b>                          |
|                           | Sanctioned Year : <b>2021-22</b>  |
| Any other accomplishments | -----   |