

RESUME

Gayatri Vidhya Parishad College for Degree and PG Courses (Autonomous)

Rushikonda, Visakhapatnam-17

E-Mail ID:chandravathi.d@gmail.com

Phone No:9951862491

Name of the Employee : **CHANDRAVATHI DITTAKAVI**

Designation : **Associate Professor & TPO**,Department of CSE

Qualification : MCA, M.Tech(CSE), Ph.D (CSE)

Date of Birth : 15-01-1974.

Institution Working : GVP College for Degree & PG Course(A),Rushikonda,VSP.

Year of Joining : 07-07-2005.

1. Educational Qualifications:

| Slno | Educational Qualification | Year of Passing | University |
|-------------|----------------------------------|------------------------|--------------------|
| 1. | Ph.D (CSE) | 2019 | GITAM University |
| 2. | M.Tech(CSE with BIO) | 2010 | Andhra University |
| 3. | MCA | 1998 | Andhra University |
| 4. | B.Sc[Elect] | 1992-95 | Andhra University |
| 5. | Intermediate | 1990-1992 | AP Secondary Board |
| 6. | Matriculation | 1990 | Andhra University |

2. Achievements:

- I have been awarded Ph.D in the year 2019 from **GITAM- Deemed to be University** ,Department of Computer Science and Technology under the esteemed guidance of Prof. P.V.Lakshmi with the title “ **Enhanced Homomorphic Technique for Cloud Data Security**”.
- **Research Supervisor:**I have been recognized as **Ph.D Guide** in the year 2022 by Andhra University and Gunipur University in the year 2023.Total three scholars have been allotted ,2 from Andhra university.
- **Achieved NPTEL Elite-Silver certification on Cloud Computing held on April 2024 and NPTEL Elite Certification on Blockchain and its Application during 2025.**

- **Achieved Best Teacher Award of the year in Excellence of Teaching form Council for Skills and Competencies (CSC) from Government of India registered with NITI Ayog on 5th Sept 2024.**
- **Published a book on Machine Learning with IoT in the year 2024.**
- **Obtained ATAL FDP on Cyber Security and Digital forensics from 16-12-2024 to 21-12-2024.**

3. Administrative Positions:

- Training and Placements officer for all engineering courses from February 2023 till date.
- BOS Chair-Person for M.Sc (CS) 2019-2022.
- Worked as Head of the Department for M.Sc(CS) from 08-04-2022 to 30-09-2022 .
- Worked as In-charge HOD for MCA & M.Sc (CS) form 20-12-2019 to 07-04-2022.
- Chief Superintendent for PG Examinations held in the month of April-June 2022.
- Training and Placement Officer for PG Courses (Science) Since 2019 to 30th sep,2022.
- NAAC member for Criteria 3 and Criteria 5 and also for Internal Departmental Audit.
- Served as Convenor for Faculty Development Program on “Cyber Security and Digital Forensics” in the month July 2023.
- Acted as Convenor and organized 2-Day National Level Conference on “Computational Intelligence and Sustainable systems” in the month of April 2024.
- Convenor for Program coordination for Convocation held in 2022.
- Active member for the in organizing Annual day functions.
- CSI Chapter Co-Ordinator form 2025 for CSE Students.

4. BOS Expert and session chairs:

- Currently BOS Expert for BCA Course for SKSD Mahila Kalasala UG & PG,Tanuku .
- Also chaired many sessions for National and International level conferences.

5. Experience (Total) : 24+years

| S.no | Organization Name | Designation | No. Years Exp + | Duration |
|-------------|---|--|------------------------|------------------------|
| 1 | Gayatri Vidhya Parishad College for Degree & PG Courses(A), Visakhapatnam-45. | Training and Placement Officer & Associate Professor | 2+ years | 01-02-2023 - till date |
| 2 | Gayatri Vidhya Parishad College for Degree & PG Courses(A), Visakhapatnam-45. | Associate Professor, Department of CSE | 2022 Sept | Till date |
| 3 | | | 2022 | 8months |

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|---|---|--|-----------|--------------------------|
| 4 | Gayatri Vidhya Parishad College for Degree & PG Courses(A), Visakhapatnam-45. | HOD & Associate Professor, MCA Department | 2019-2022 | 20-12-2019 to 07-04-2022 |
| 5 | Gayatri Vidhya Parishad College for Degree & PG Courses(A), Visakhapatnam-45. | I/C HOD & Associate Professor, MCA Department | 2 years | 01-09-2017 to 19-12-2019 |
| 6 | Gayatri Vidhya Parishad College for Degree & PG Courses(A), Visakhapatnam-45. | Assistant Professor & Sr.Assistant Professor | 12 years | 01-07-2006 to 01-09-2017 |
| 7 | Gayatri Vidhya Parishad College for Degree & PG Courses(A), Visakhapatnam-45 | Assistant Professor | 1year | 06-06-2005 to 01-07-2006 |
| 8 | GVP Degree College, Visakhapatnam. | HOD | 3 years | 2002-2005 |
| | TSR & TBK College for PG Courses | HOD | | |

6. FDP Organized:

Convenor for an FDP on “Cyber security and Digital Forensics: Trends and Challenges” from 24-07-2023 to 28-07-2023.

7. Conference Organized:

Convenor for 2-Days National Conference on “Computational Intelligence and Sustainable Systems” held on April 13th -14th 2024.

8. Patents Published:

| Sl.no | Title of the Patent | Date pf Publis | Published in | Application No |
|-------|--|----------------|--|----------------|
| 1. | A Controllable False Data Injection Attack for a Cyber Physical System Field and background of the invention. | 28-02-2025 | Indian Utility Patent in Official Journal Of The Patent Office | 202541013866 |
| 2. | Real-Time Collaborative Desktop IDE using Local-First Architecture and Cloud Signaling | 10-04-2026 | Indian Utility Patent | 202641039211 A |

9. Seminars /Workshops/webinars Organized/attended:

| S.no | Name of the Seminar | Date | Role(Organized / Participation) |
|------|---------------------------------------|----------------|----------------------------------|
| 1. | National workshop on Data Engineering | 29-30 Nov 2006 | Participation |

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|-----|--|--|--------------------|
| 2. | Vinuthna -Student Technical Meet | 22-23 Dec 2007 | Committee member. |
| 3. | Seminar on Data Mining and Warehousing at GVP College for Degree and PG Courses(A) | 4 th & 5 th April 2008 | Organized |
| 4. | Program on communication and Soft Skills at GVP Degree college | 14 th Dec 2008 | Organized |
| 5. | National Seminar on the impact of quality Assessment in Higher Education | 20 th sep 2009 | Participation |
| 6. | AICTE sponsored Staff Development programme on Network security at AITAM, Tikkali. | 5 th -18 th Feb 2010 | Participation |
| 7. | Translational Research in Bioinformatics & T2DM at GVP Degree College (A) | 17 th & 18 th April 2011 | Organized |
| 8. | National Conference on Bioinformatics and Beyond | 30 th Nov-1 st Dec 2011 | Participation |
| 9. | Privacy Preserving and Trust Management(NSPPTM) | 24 th & 25 th March 2012 | Organized |
| 10. | National Seminar on Cloud Computing in Gitam University | 7 th -8 th sep 2012 | Participation |
| 11. | FDP on Information Security and Cyber Forensics | 3 rd -5 th Oct 2013 | Participation |
| 12. | Recent Trends and Research issues in computers Science and Systems Engineering(ICRTRICSE-2K15) | 2 nd -3 rd May 2015 | Paper presentation |
| 13. | One Week foundation course on MATLAB and Latex | 05 th -09 th Dec 2016 | Participation |
| 14. | 2 days Workshop on IBM Rational Software Architect Designer | 29 th – 30 th November, 2018 | Participation |

10. AICTE ATAL FDP's/Seminars /Workshops/webinars attended in 2019 -2020-till date:

| Sl.No | Date | Topic | Type | University/College |
|-------|------------------------------------|---|----------|--|
| 1. | May 4th- May 6th ,2020 | Agent Based Intelligent Systems | FDP | Satyamamba Institute of Science and Technology |
| 2. | May 22nd - May 26th ,2020 | Artificial Intelligence | FDP | ANITS, Visakhapatnam |
| 3. | May 26th – May 30th ,2020 | Cyber Security | FDP | AICTE(ATAL), JNU, New Delhi |
| 4. | July 10th – July 11th , 2020 | Understanding OBS Studio and Streamyard | Workshop | DR MGR Educational and Research Institute |
| 5. | May 30th 2020 | Moodle Learning | Webinar | Chameli Devi group of Institute, Indore |
| 6. | June 14th ,2020 | Online Mock GD by Industry delegates | Workshop | GVPCOE(A), Visakhapatnam |
| 7. | 28-06-2021 to 03-07- 2021 | 6 Day National Level online FDP | FDP | Brain-O Vision |

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| | | on Multi Technology | | |
| 8. | 2021-07-19 to 2021-07-23 | Faculty Development Program on QUANTUM COMPUTING | FDP, AICTE | IIIT, Dharwad |
| 9. | 2021-7-26 to 2021-7-30 | FOUNDATIONS OF CYBER SECURITY & DIGITAL FORENSICS | FDP, AICTE | V R SIDDHARTHA ENGINEERING COLLEGE (AUTONOMOUS) |
| 10. | 28-03-2022 to 01-04-2022 | Python Programming for Beginners | Short term Course | NIT, Warangal, CSE Department |
| 11. | 19-06-23 to 23-06-2023 | Data Analyst | FDP, AP Skill development | APSSDC with ExcelR |
| 12. | 16/12/2024 to 21/12/2024 | Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices | ATAL FDP | BHOJ REDDY ENGINEERING COLLEGE FOR WOMEN |
| 13. | 25/08/2025 to 30/08/2025. | Quantum Computing | ATAL FDP | GVP College for Degree & PG Courses |

11. Papers Published: 30

| Sl.no | Year of Publishing | Title of the Paper | Type of Publication | Journal/ Proceedings | ISBN NO |
|-------|--------------------|---|---------------------|--|------------------------------|
| 1. | 2010 | Encoding and Decoding of a message in the implementation of elliptic curve cryptography using Koblitz' Method | International | IJCSE. | Vol02 No.05,190 4-1907 |
| 2. | 2010 | Selecting a plaintext in Rabin Cryptosystems using padding generated by Pseudorandom-Generators” , | National | The IUP Journal Of Publications | 0973-9904 |
| 3. | 2010 | Classification of Different Species Families using Clustering Algorithm | Inter - National | “International Journal of Computer Science and Engineering | 2010:2(5)1 884-1886 |

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|-----|------|---|-----------------------------|---|--|
| 4. | 2011 | Prediction of Species Relations using leader-sub leader algorithm | National | Translational Research in Bioinformatics and T2DM | 978-81-92179919 |
| 5. | 2012 | Addition Subtraction Method for Scalar Multiplication in the implementation of elliptic curve cryptography | National | Privacy Preserving and Trust Management | 978-81-921799-3-3 |
| 6. | 2012 | Performance evaluation of New Symmetric Key Algorithm using AES | National | Privacy Preserving and Trust Management | 978-81-921799-3-3 |
| 7. | 2014 | Efficient Computation of Point Multiplication in the Implementation of Elliptic Curve Cryptography | National | STM Journals | |
| 8. | 2014 | Efficient Computation of Point Multiplication in the Implementation of Elliptic Curve Cryptography | National | NCETCS1401 | |
| 9. | 2015 | An Empirical Study on Homomorphic Encryption for Cloud Security. | International | ICRTRICSE-2K15 | |
| 10. | 2106 | An Empirical Study on Homomorphic Encryption for Cloud Security. | International | IJESC- International Journal of Engineering Science and Computing | April 2016 5.611, Google Scholar, EI compedence |
| 11. | 2016 | A Novel Homomorphic Encryption Technique for Generation of Keys Using Cluster Classification for Cloud Security | International | IJSER – International Journal of Scientific and Engineering Research | July 2016 4.2, Google scholar, Copernicus, Thomson Reuters |
| 12. | 2016 | Homomorphic Encryption Scheme Using Hill cipher for cloud data security. | International ,UGC approved | IJAIST – International Journal Of advanced Information Science and Technology | Sept 2016 6.18, ICI indexing, Copernicus ISSN 2319-2682, vol 5 No.9 |

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|-----|------|---|------------------------------|---|---|
| 13. | 2017 | Performance Analysis of Modified RSA and RSA homomorphic encryption scheme for cloud data Security ISSN 2320-5407,vol 5(2),275-281 | International ,UGC approved | IJAR – International Journal of Advanced Research | Feb 2017 6.118,Thomson Reuters, copernicus International, Google Scholar |
| 14. | 2017 | A New Hybrid Homomorphic encryption scheme for cloud data security. ISSN 0973-6107 v0l 10, Number 5, pp 825-837. | International ,UGC approved | Advances in computational Sciences and Technology (ACST) | Jun 2017 UGC approved |
| 15. | 2017 | Advanced Homomorphic encryption technique for cloud data security | Scopus | International Journal on Informatics Visualization, 2017, 1(1), pp. 1–4. | 2017 |
| 16. | 2018 | Performance Analysis of Homomorphic Encryption algorithms for Cloud Data Security. | International | International Journal for Research in Applied Science & Engineering Technology (IJRASET) | March 2018 UGC Approved |
| 17. | 2019 | Privacy Preserving Using Extended Euclidean Algorithm Applied To RSA-Homomorphic Encryption Technique | Scopus | International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-10, | August 2019 |
| 18. | 2019 | Enhanced Homomorphic Encryption technique using RSA ALGORITHM with multiple keys | Scopus, International | Volume 8, No.4, International Journal of Advanced Trends in Computer Science and Engineering | July – August 2019 |

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| 19. | 2021 | Defense Against Frequency Analysis In Elliptic Curve Cryptography Using K-Means Clustering | ISBN: 978-1-7281-8529-3 ©2021 IEEE | 2021 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS) | March 21 |
| 20. | 2022 | New Authentication RSA Homomorphic Encryption Technique for Prime Factorization-Based Attacks Scheme using Brahmagupta Fibonacci Identity for Cloud data security. | API Scopus indexed, ICRAIT conference, Sept 14 th -16 th 2022. | | |
| 21 | 2023 | Securing Data in Cloud of IoT Devices using Cryptography and Steganography Techniques | International Conference | NCDT- Design Thinking - Trans Disciplinary Challenges & Opportunities | 7 th -8 th July 2023 |
| 22 | 2024 | A Deep Learning Approach for helmet and triple riding Detection using Computer vision Technology in Machine Learning | National Conference | NCCIST-2024 | April 13-14 th , STM Journal |
| 24 | 2024 | Deep Global Challenge for Road Extraction using Convolution Neural networks | National Conference | NCCIST-2024 | April 13-14 th , STM Journal |
| 25 | 2024 | Network Intrusion Detection Using Wireshark and Machine Learning | International conference | International Journal of Telecommunications Emerging Technologies https://stmjournals.in/international-journal-of-telecommunications-emerging- | 2024 April 12 th 2025 Scopus |
| 26 | 2025 | Secure machine learning using homomorphic encryption for sickle cell disease | International Conference | International Conference on Recent Research in Computational Sciences & Engineering | April 12 th 2025 Scopus |

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|----|------|--|---|---|--------|
| | | | | (ICRRCE - 2025) | |
| 27 | 2025 | Secure Retrieval-Augmented Generation in ECG Using ML based Lightweight LLM | Journal of Neonatal Surgery | ISSN(Online): 2226-0439 Vol. 14, Issue 28s (2025) https://www.jneonatalsurg.com | Scopus |
| 28 | 2025 | Blockchain-Powered Trust Framework for Securing Online Examination Integrity and Authenticity Through Smart Validation | IEEE Conference Proceedings of the International Conference on Sustainable Communication Networks and Application (ICSCN-2025) DVD Part | Number: CFP25DW8-DVD; ISBN: 979-8-3315-9419-0 | Scopus |
| 29 | 2025 | Physics-Informed Modeling of Heatwave Mobility Risks in MS Patients Number: CFP25V90-DVD; ISBN: 979-8-3315-9858-7 | IEEE Conference Proceedings of the 6th International Conference on Smart Electronics and Communication (ICOSEC-2025) DVD Part | DVD Part Number: CFP25V90-DVD; ISBN: 979-8-3315-9858-7 | Scopus |

12. Webinars /Seminars Organized:

| Sl.no | Date | Title of the Webinar | Guest | Details of Guest |
|-------|------------|--|-------------------------|---|
| 1. | 30-05-2020 | Preprocessing Techniques on Data Visualization/Data science. | Mr. Kota Chandra Sekhar | Vice-President, T&O-MOT-Finance Singapore |
| 2. | 20-12-2021 | Sales force Certifications | Mrs. Karri Kavitha | Sales force, Huston, USA |

13. Books /Book chapters published:

- Published book in **Lambert Publications** with title ”**Enhanced Homomorphic Technique for cloud Data Security**” in the year 2020.
- Published a book on **Machine Learning with IoT** in the year 2024, Leilani Katie Publication and PRESS.
- Published a book chapter on “Deep LungNet with Global Average Pooling for High-Performance Lung Cancer Classification and Detection” 2025.
- Published a book chapter on “Advanced Deep Neural Architectures for Parkinson’s disease Prediction and Classification Systems”2025.
- Published a book chapter on “AI-Powered Efficient and Accurate Real-Time Detection of Welding Defects using YOLOv8 Model”2025.

14. Certifications:

- Cyber walnut certification on cybersecurity in 2025-26.
- **NPTEL -Cloud Computing Certification ,Elite Silver-2024**
- **NPTEL -Block Chain and its applications .2025**
- **NPTEL- Quantum Qiskit ,2025.**
- **IBM - DB2 certified in the year 2010.**
- **.NET certified in 2015.**

15. Subjects delt:

DBMS, Cloud Computing, Operating Systems, Data warehousing and mining, Big Data Analytics, OOAD, DMS, Computer Graphics, Cryptography and Network Security, Image Processing , Bioinformatics, Distributed systems, E-Commerce, Data structures, DAA, File Structures, OOSE, PPL, Computer Organization and Architecture, C,C++,DMS,OOMD,Introduction to Data Science.

16. Student Projects:

Guided many students from 2007 to till date with respect to Projects in the areas of Quantum cryptography,cryptography and NS, Image Processing, Bioinformatics , IOT ,Data Mining ,Machine Learning and Cloud Computing.

Dr.D.Chandravathi
TPO & Associate Professor
Department of CSE