CURRICULUM VITAE

Name of the Employee	:	**Dr. Bh. PADMA**
Designation	:	Professor
Qualification	:	M. Tech, Ph. D (CSE)
Date of Birth	:	05/01/1972
Year of Joining	:	22/08/2005
Experience (Total)	:	Teaching – 19 years, Industry – 2.4 years
Specialization	:	Cryptography and Network Security
Thesis	:	Obtained in Aug 2019 from GITAM University in the domain of Mobile Authentication.

I am an experienced and self-motivated academician serving as a Professor in the Department of CSE. I have been working in the institution for 20 years and demonstrated a commitment to excellence in teaching, research, and service. In addition to my academic qualifications, I actively participated in departmental committees, curriculum development initiatives. I also have experience in the industry for 2 years.

I have published **5 Book Chapters which are Scopus Indexed (Three Books chapters are selected and yet to be published)**, and **23 Research papers** in various journals and conference proceedings. I have published one Book titled: " **Blockchain+AI: Technologies, Frameworks and Real-world Applications**" in 2025 August which is presently in press. Among all my publications, **7 research articles are Scopus Indexed** I have continued my research endeavors even after my Ph.D. and published 6 research publication during the last 5 years. To stay up-to-date on emerging technologies and enhance my skills, I have undertaken two NPTEL Courses and participated in Many FDPs and Workshops. I have been vigorously engaged in Academic Audits, NAAC Criteria Works, and BOS from the inception. Prior to my present role as IQAC Coordinator, I have consistently demonstrated excellence in administrative services.

Experience:

S.no	Name of the Organization	Designation	Exp.(years)	Duration
1	Gayatri Vidya Parishad, Dept of MCA, Rushikonda, VSP.	Professor	0.6	Jan 2nd, 2025 – till now
2	Gayatri Vidya Parishad, Dept of MCA, Rushikonda, VSP.	Associate Professor	4	Dec 2019-Jan 1st, 2025
3	Gayatri Vidya Parishad, Dept of MCA, Rushikonda, VSP.	Sr. Asst Professor	0.6	Apr 2019-Nov 2019

4	Gayatri Vidya Parishad, Dept of MCA, Rushikonda, VSP.	Sr. Asst Professor	2.3	Nov 2016-Mar 2019
5	Gayatri Vidya Parishad, Dept of MCA, Rushikonda, VSP.	Assistant Professor	9.4	Aug 2005-Oct 2016 (lien from 2007 Oct - 2009 Jul)
6	Satyam Info way, Chennai	Software Developer	1	Sept 2000 - Nov 2001
7	Net Decisions (P) LTD, VSP	Software Engineer	0.9	Nov 1999 - Aug 2000
8	GITAM, VSP	Programmer cum Teaching Assistant	0.9	Dec 1998 - Oct 1999
9	Enigma Consultancy Services, Bangalore	Multimedia Programmer	0.5	Nov 1997 -Mar 1998

Thesis Awarded:

Awarded Doctorate in CSE from GITAM in Aug 2019 under the guidance of Prof G.V.S. Rajkumar, Dept. of CSE, and GITAM. Title of the Thesis: "**DESIGN AND ANALYSIS OF AN ELLIPTIC CURVE BASED PATTERN AUTHENTICATION SYSTEM RESISTANT TO PRE-COMPUTATION ATTACKS**".

Research Guidance: 2 Students

- Registered as **Research Guide from Andhra University** in the month of December 2022, and allotted one Research Scholar Mrs. D. Deepthi in the month of March, 2023.
- Mr K Sankar Sastry , GVPCDPGCA(A), enrolled from Gunupur University.

Awards:

Obtained a letter of Appreciation from the institution, for the Academic Contribution during the year 2022-23.

Book Chapters Published:

1.   Published a Book Chapter titled "**Cyber Systems and Security in Industry 4.0**", Published in December 24th, 2021 by CRC Press, Taylor and Francis Group, ISBN: 9781003146711, https://doi.org/10.1201/9781003146711 **(SCOPUS).**

2.   Published a Book Chapter titled "Smart Grid communication and information technologies for cyber security, data privacy, and policy issues", Chapter-1, 1st April, 2022, Book: Deebak-SNS-1633103, ISBN: 978-0-323-85626-3, Elsevier Publishers. **(SCOPUS)** https://doi.org/10.1016/B978-0-323-85626-3.00008-9.

3.   Optimization of Nerve Segmentation Performance using U-Net Archtechture and Aquila in medical imaging. (Selected for **Scopus** - to be published).

4. Ensemble – based classification and prediction of divergent Gene variant interpretations using boosting and modern machine learning techniques. (selected for **Scopus** - to be published).

5. Performance comparison of nueral network and transform – based deep models in classification of age related health conditions. (selected for **Scopus** - to be published).

Books Published:

One Book titled " Blockchain+AI: Technologies, Frameworks and Realworld Applications".(In press-2025)

Administration:

- Presently holding the role of IQAC Coordinator of Gayatri Vidya Parishad College for Degree and PG Courses from July, 2021.
- Coordinator of BoS & Coordinator of Academic Audit, Dept. of CSE, GVPCDPGC (A).
- I have been vigorously engaged in Academic Audits, NAAC Criteria Works, and BOS from the inception. Prior to my present role as IQAC Coordinator, I have consistently demonstrated excellence in administrative services and played a key role in achieving NAAC Grade 'A' for the institution.

Research Papers /Proceedings Published:

Sl. No	Title of the Paper	Publication Details
1	"Implementation of Optimizing point Multiplication in Elliptic Curve Cryptography using Binary Method"	JCS, Sep-Oct 2010, vol-4, issue: 6
2	"Encoding and Decoding of a message in the implementation of Elliptic Curve Cryptography using Koblitz' Method"	IJCSE, vol-2 Issue: 5, 2010
3	"A simple message-Encryption scheme based on Amino-acid Protein sequence"	17th-18th April 2011 Proceedings of NSTRBT
4	"Selecting a plaintext in Rabin Cryptosystems using Padding generated by Pseudorandom- Generators".	January 2012, The IUP Journal of Publications
5	"Addition-Subtraction Method For Scalar-Multiplication in the Implementation of Elliptic Curve Cryptography"	24th, 25th March 2012, Proceedings of NSPPTM.
6	"Performance evaluation of new symmetric key algorithm using AES"	24th ,25th March 2012 Proceedings of NSPPTM
7	"Efficient Computation of Point Multiplication in the Implementation of Elliptic Curve Cryptography"	23rd,24th March 2014, Proceedings of NCETCS'14.
8	"Efficient Computation of Point Multiplication in the Implementation of Elliptic Curve Cryptography"	STM Journals, Vol 1 No 1, 2014.

9	"A Review on Android Mobile Password Locks and Security Issues"	ICRTRICSE-2K15, 2nd -3rd, May 2015.
10	"A Review on Android Authentication System Vulnerabilities. International Journal of Modern Trends in engineering Research".	IJMTER, Volume-3, Issue-8, pp: 118-123. ISSN: 2349-9745. 2016.
11	"Design and Analysis of an Enhanced SHA-1 Hash Generation Scheme for Android Mobile Computers. **"- Indexed in SCOPUS**	IJAER, Volume 11, Number 4 pp 2359-2363. 2016. ISSN: 0973-4562.
12	"Dynamic salt generation for mobile data security using elliptic curves against pre-Computation attacks".	IJIM, Vol. 2, Nos. 3/4, pp 179-194. ISSN: 2055-6047. 2017.
13	"A Novel Approach to Thwart Security Attacks on Mobile Pattern Authentication Systems".	IJCNIS, Vol 10, N0 5, pages: 18-27. 2018. ISSN: 2074-9104.
14	"Preventing Security Attacks on Mobile Pattern Passwords"- **Indexed in SCOPUS**	JATIT, Vol.96. No-4. ISSN: 1817-3195, 2018.
15	"An Identity based Secure Pattern Authentication System" - **Indexed in SCOPUS**	IJRTE, Vol-8, Issue-1, May 2019.
16	"Insurance Approval Analysis using Machine Learning Algorithms"	IJCSE, Vol 8, Issue 12, Dec 2020.
17	"Presented a paper titled "DNA Based Pattern Representation for Mobile Security" in the International Conference CHSN 2020."	Abstract Published in Proceeding of CHSN-2020, JNTU Kakinada, December 28th - 29th 2020.
18	"Presented a paper titled "Defense Against Frequency Analysis in Elliptic Curve Cryptography Using K-Means Clustering" in the International Conference ICCCIS-2021. **SCOPUS Indexed.**	Published in IEEE Xplore "2021 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)", 2021, pp. 64- 69, doi: 10.1109/ICCCIS51004.2021.9397065.: 12th April 2021.
19	"DNA BASED PATTERN REPRESENTATION FOR MOBILE SECURITY"	Advances and Applications in Mathematical Sciences Volume 20, Issue 12, 2021, Pages 3157-3167 © 2021, Mili Publications.
20	"A New Authentication RSA Homomorphic Encryption Technique for Prime Factorization- Based Attacks Scheme using Brahmagupta Fibonacci Identity for Cloud data security "-**(SCOPUS)**	International Conference on Recent Advances in Industry 4.0 Technologies (ICRAIT 2022). 14-16 September, 2022.
21	"A Survey on Modern Cryptographic Techniques and Applications"	NCDT 2023, AU, Visakhapatnam, Proceedings published online.
22	Fake Product identification using Blockchain Technology	Journal of Production Research & Managem ISSN:2249-4766, Volume 14, Issue 2, 2024, M August, doi: 37591/JoPRM.
23	AI-Driven 3D Blueprint Generator for Personalized Product Design	Presented Paper at ICRRCE-2025, 12th April at Bangalore, Rajarajeswari College of Engineering.

Webinars / Seminars /FDPs Arranged:

Sl. No	Type of the Program	Name of the Conference/Symposium	Date	Resource Person
1	WEBINAR	Blockchain Technology	27th Jan,2021	Dr. N. Rukma Rekha of University of HYD
2	WEBINAR	Trends in cyber Security	7th April,2022	Prof A.S.N. Chakravarthy, JNTUK.
3	FDP (Co-Convener)	Cyber Security and Digital Forensics- Challenges and Trends	24th July, 2023 to 28th July 2023.	Prof. D Lalitha Bhaskari, Prof P Prapoorna Roja, Prof P.V Lakshmi, Prof V Nagalakshmi, Prof IS Pallavi, Dr N Rukma Rekha, Mr B Samuel Neelam
4	5-Day online Faculty Development Program Sponsored by NAAC	Outcome Based Education	16th – 20th Oct, 2023	Dr. B.V. Apparao, Prof. K Chandrabhushana Rao, Mrs. Chethana Harika
5	Organized a 10-day SDP	"Office Etiquette for better Public relations"	14th to 18th May, 2024.	Mr Raghu Pulaparthi, Mr Aswin Patel
6	A 2-day faculty workshop	"Guidelines for expert team visit"	16th – 17th September,2024	Dr N Jayasankaran
7	Faculty Orientation Program	"NAAC's Quantitative Metrics- Ensuring Data Quality and Maturity"	9th – 10th Aug, 2024	MR Sabeen Goving
8	A 2-day faculty workshop	"NAAC Accreditation Process"	20th-21st July, 2024.	Dr N Jayasankaran

Seminars attended / organized   :

Sl. No	Name of the Seminar	Date	Role (Organized / Participation)
1	Bioinformatics and speech Recognition	21-7-2008 to 26-7-2008	Participation
2	Embedded Systems	31-7-2008 to 2-8-2-8	Participation

3	The Impact of Quality Assessment in Higher Education	20-9-2009	Participation
4	Staff Development Programme on "Network Security and Applications"	5-2-2010 to 18-2-2010	Participation
5	"Translational Research in Bioinformatics and T2DM"	17-4-2011 to 18-4-2011	Organizing member & presentation
6	National Seminar on "Privacy Preserving & Trust Management"	24-3-2012 to 25-3-2012	Organizing member & presentation
7	National Seminar on Cloud Computing	7-9-2012 to 8-9-2012	Participation
8	ISCF-2013, GITAM, VSP	3rd - 5th2013	Participation
9	Emerging Technologies in Computer Science 2014 (NCETCS'14)	28-3-2014 to 29-3-2014	Participation
10	A review on Android Mobile Password Locks and Security Issues	2nd and 3rd 2 May 2015	Presentation
11	One-week FDP on "MATLAB and LATEX	5th- 9th December, 2016.	Participation
12	Quality Research Writing and Research Impact Measures	4th Jan 2016	Participation
13	"Three Day Workshop on "IOT Applications"	5th July 2018.	Participation
14	AICTE Training and Learning (ATAL) Academy Online FDP on "Blockchain",JNTUA College of Engg, Pulivendula.	20-04-2020 to 24-04-2020	Participation
15	Universal Human Values and Professional Ethics, organised by Chebrolu Engg.. College	May 13th - 18th, 2020.	Participation
16	One-week FDP on AI, Santhiram Engg College, Anantpuram.	May 13th - 18th, 2020.	Participation
17	5-day online FDP conducted by Department of CSE, GVPCDPGC in in collaboration with BRAIN O VISION on "Artificial Intelligence"	22nd to 26th May, 2020	Organization and Participation
18	Python Workshop, Brain-O-Vision Solutions.	15th – 28th, June 2020	Participation
19	ATAL Academy Online FDP on "Cyber Security"	2020-9-8 to 2020-9-12	Participation
20	A webinar on "Personal Financial Management"	20th May 2020 (5:00 pm - 6:30 pm) by ICT Academy.	Participation
21	A 5-day webinar series on "Season 5 of Sky Campus on the theme The Future of Skills - Education, Employment & Entrepreneurship".	11th - 15th May 2020	Participation

22	A webinar on "Outcome Based Education Software"	28th May 2020	Participation
23	A webinar on "School Education-Post Pandemic Challenges, a way Forward"	16th May 2020	Participation
24	FDP on "Cyber Security"	8th Feb 2021 – 14th Feb 2021	E&ICT Academy, IIT Kanpur.
25	FDP on Blockchain Technology	17th-21st May, 2021	NITTTR, Chandigarh.
26	National Level Workshop on NIRF Indian Rankings-2022	5th, 6th Jan,2022	Institute of Academic Excellence, Hyderabad
27	5-Day online International Faculty Development Program on Data Analyst	19th June 2023 to 23rd June , 2023	Organized by APSSDC, ExcelR
28	ATAL FDP on Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices.	16/12/2024 to 21/12/2024.	BHOJ REDDY ENGINEERING COLLEGE FOR WOMEN

Certifications:

Sl. No	Name of the Certification	Duration
1	NPTEL	Foundations of Cloud Edge, IoT and ML,
2	NPTEL	Introduction to Internet of Things, Jan-Apr 2021.(12 weeks) – Elite
3	NPTEL	Cloud Computing (12 weeks, Jan-Apr, 2024.) – Elite Silver
4	COURSERA	Block chain, Dec 22nd, 2020
5	COURSERA	Software Development Processes and Methodologies, April 10th,2022
6	COURSERA	Data Manipulation and Business Analysis using Spreadsheets, April 9th 2022.
7	Microsoft Technology Associate certification	March 18th 2017.

Memberships and Journal Reviewer:
1. Sub-Reviewer of "An online conference Computer Vision, High Performance Computing, Smart Devices and Networks (CHSN-2020)" held during 28th-29th Dec, 2020.
2. Life member of IAEPT.

Contact Details:

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