CURRICULUMVITAE

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CareerObjective

To obtain a challenging position as a Professor of Computer Science and Engineering and allied departments where I can contribute to academic excellence through high-quality teaching, meaningful research, and curriculum development, while mentoring students and engaging in professional and institutional development.

AcademicQualifications

- DoctorateofPhilosophy(**Ph.D.**)fromPresidencyUniversity,Bangalore (November 2023)
  Thesis title: An Application Specific Improvisation to Scalability of Blockchain Technology
- MasterofTechnology(**M.Tech.**)inDigitalCommunicationandNetworkingfromUniversity B.D.T.CollegeofEngineering,DavangereUniversity,Davangere(2011)
- Bachelor ofEngineering (**B.E.**) in InformationScience and Engineering fromS J C Institute ofTechnology, VTU, Belgaum (2008)

AboutPh.D.Thesis

The main objective of my Ph.D. work was to improve the scalability of Blockchain Technology under the supervision of Dr. K G Mohan, presently working as Professor @ GITAM Bangalore. This research work was carried out on non-financial dataset of Blockchain on Ethereum platform. Using the sharding and clustering techniques on IPFS database I have demonstrated a delta improvisation to the Ethereum Blockchain.

Teaching Experience (10 years)

- Currently working as **Associate Professor** in Department of CSE, SJCIT, Chickballapur
- Worked as **Associate Professor & Head of the Department** in CSE (Cyber Security) at R L Jalappa Institute of Technology, Doddaballapur, Bangalore Rural District from 2nd July 2024 to 26th July 2025
- Worked as an**"Assistant Professor – Senior Scale"** in the School of CSE, Presidency University, Bengaluru from 3rd July 2017 to 25th June 2024.
- Workedas**SeniorExecutive(Academic&Training)**inSadhguru-TejasCenterforTelecom Technology, Udupi from 15th July 2013 to 17th May 2014
- Worked as **Assistant Professor** in the Department of Information Technology, SreeRayeshwar Institute of Engineering and I.T., Shiroda, Goa from 7th August 2012 to 6th July 2013

Research Experience (3 years)

Worked as **Senior Project Fellow** in HPC and Cyber Security division, CSIR Fourth Paradigm Institute, Bangalore from 22nd May 2014 to 31st March 2017.

About Research Experience @ CSIR Fourth Paradigm Institute

CSIR Fourth Paradigm Institute (CSIR-4PI) is a young and vibrant organization committed to promoting mathematical modeling and data-driven research culture across CSIR and accelerating the pace of discovery in the areas of interest to CSIR. I have had the privilege to work in HPC and Cyber Security division of CSIR 4PI under the supervision of Dr. G K Patra, Chief Scientist. I worked on RSA Crypto system and Prime factorization. Trying to provide a novel approach that can perform prime factorization from a large composite number. Indeed, this is the reason behind RSA's stronger even after 3 decades of incorporating it into our day-to-day secure applications. I spent 3 years in this lab during May 2014 to March 2017. During this period, I have also taken the responsibility of guiding UG and PG students for their Internships and Projects.

Subjectshandled

- CryptographyandNetworkSecurity
- ComputerNetworks
- EthicalHacking
- CyberThreatsforIoTand Cloud
- FoundationsofBlockchainTechnology
- Internet of things
- Principles of Programming using C
- Data Structures Lab

Recognitions / Achievements

- Recognized as **VTU Research Supervisor** in May 2025
- Recognized as Tutor for the course **Fundamentals of Designing and Deploying Computer Networks** by Internet Society
- **SPOC for NDSC Skill India** program to handle VTU final year Internship in association with Rooman Technologies as training partner
- Recognized as trainer for **Cyber Awareness programs** by Cyber Security Center for Excellence Karnataka (CySeCK)
- Recognized as **Resource Person** for AICTE ATAL FDP on Cyber Security
- Recognized as local fellow for INSIG 2024 (Indian School on Internet Governance) event held at IIM Bangalore during October 2024

Other Academic Responsibilities handled

- SPOC for NSDC Skill India program offered by VTU as a part of final year Internships
- SPOC for **Cyber Kavach** hackathon 2023
- Finance chair for IEEEConference held at Presidency University, Bangalore in 2023
- 3 students under my guidance has got **paid internship** under a DST scheme at Amrita Vishwa Vidyapeetham
- Project coordinator
- Mentor, Class Coordinator,
- DAC Committee member
- Blockchain student Club coordinator

JournalPublications / Conference Proceedings

January 2025	Optimizing Polynomial and Regularization Techniques for Enhanced Housing Price Prediction Accuracy, **Q1 Springer Nature**, Volume 6(96)
January 2025	Leveraging Enhanced PSO and Proving Random Forest's Dominance for Prediction of Lung Cancer Severity, **Scopus Q3**, Journal of Information Systems Engineering and Management, Vol. 10(3)
October 2024	Innovative Image Processing Techniques for Automating Cosmetic Inspection. **Springer**Lecture Notes in Electrical Engineering, (LNEE), Volume 1274
October 2023	An Approach to Improvise Blockchain Scalability Using Sharding and PBFT, **Scopus Q3**, InternationalJournalofIntelligentSystemsandApplications in Engineering, Vol. 12(2S),
November 2023	Novel Approach Towards Academic Module Based on Blockchain, **Scopus Q3**, International Journal of Intelligent Systems and Applications in Engineering, Vol. 12(3S)
March 2024	Enhancing Trust and Security in IoT Architecture for Low-Cost Microcontroller Devices using Elliptic Curve Cryptography, **UGC care**, International Journal of Scientific ResearchinEngineeringandManagement (IJSREM),VOL. 8(3)
April 2022	Analysis and surveillance of infectious diseases based onartificial intelligence, **Web of Science**, Bulletin of Environment, Pharmacology and Life Sciences, Vol.11(5)
January 2017	Identical Chaotic Synchronization for Hash Generation, ACCENTS Transactions on Information Security, **Peer reviewed** open access, ISSN (Online):2455-7196, Vol.2(5),
October 2017	A secure key exchange protocol using link weights and dynamic Tree Parity Machine, ACCENTS Transactions on Information Security, **Peer reviewed** open access, ISSN (Online):2455-7196, Vol.2(8)
March 2024	South Indian Sign Languages Recognition and Classification using Deep Learning Networks, **IEEE** International Conference, Presidency University, Bangalore. ISBN:979-8-3503-0915-7
January 2016	Key Challenges on integer factorization in RSA public key Cryptosystem, AES Journal of Information, Knowledge and Research in Computer engineering, **Peer reviewed** open access, Vol.5(2), ISSN: 0975 – 6760
March 2024	"Leveraging Machine Learning for Early Prediction of Lifestyle Diseases: A Data-Driven Approach", **IEEE** International Conference on Recent Innovation in SmartAnd Sustainable Technology, Presidency University, Bangalore. ISBN:979-8-3503-0915-7
June 2011	Secured 3rd position in **National Level Conference** for presenting a paper on the topic *"SpeedingupSecureWebTransactionusingEllipticCurveCryptography"* heldatJ.N.NInstituteof Engineering, Chennai.

PatentDetails

January 2025	Indian Patent on "Smart Robot for Warehouse Automation and Logistics" IPR Design Application No. 444398-001
March 2024	Indian Patent grant on "IOT based automatic robotic waste bin" IPR Design Application No. 409500-01
June 2022	German Patent on "systems for monitoring and diagnostics of cyber/network security remotely using machine learning feature"

Funded EventsOrganized

- Convenerand Co-Convener for two prestigious NationalInstructionalWorkshoponCryptology conducted in association with Cryptology Research Society of India heldduring August 2022 and September 2019 respectively at Presidency University.

FundsReceivedforNationalWorkshop

1	CryptologyResearchSocietyofIndia	1,00,000
2	RCBoseCenterforCryptology	48,000
3	NationalBoardforHigherMathematics	70,000
4	Reserve BankofIndia	50,000

InvitedTalk-ResourcePerson

28th April to 2nd May 2025	Tutor for a bootcamp on "Fundamentals of Designing and Deploying Computer Networks conducted at GITAM Bangalore hosted by Internet Society Bangalore Chapter
12th April 2025	Subject expert for a Student Development Program on "Vulnerability Assessment tools in Ethical Hacking held at Impact College of Engineering, Bangalore
16th November 2024	Delivered a session on "Role of Encryption in Social Application" conducted as a part of Global Encryption Day by Bapuji Institute of Engineering and Technology, Davangere
5th November 2024	Conducted a Cyber Awareness session at National Institute of Fashion Technology, Bangalore. This session was a part of vigilance awareness campaign Cyber Security Awareness 2024, Govt. of India
14th August 2023	Speaker for Cyber Awareness Session organized by St. Claret College, Bangalore.
24th May 2023	Resource Person for National Instructional Workshop on Advanced Cryptography conductedby St. Thomas College (Autonomous), Thrissur, Kerala.
17th to 21st August 2020	NationallevelFDPon"IoTProtocolsandWSNTheoryand Practice" at Bangalore Institute of Technology, Bangalore
20th June 2020	webinaron "ResearchTrendsandOpportunitiesinCryptography", East West Institute of Technology, Bangalore held on
9th to 10th November	hands-onworkshopon"AdvancesinTechnologyforIoTandIndustry4.0" at J.N.N. College of

2019	Engineering, Shivamogga, Karnataka.
14th to 16th December 2017	3daysFacultyDevelopmentProgramonAvenuesofCryptographyinNetworkSecurityheld at NMAMIT, Nitte

Conferences/Workshops/FDPattended

December 2024	AICTE ATAL FDP
9th March 2025	One Day Workshop on DSN Security conducted by Dayananad Sagar College of Engineering, Bangalore in association with **ICANN**
19thto 23rdOctober 2020	AICTE Sponsored online FDP on "Blockchain" held during, conducted by Viswajyothi College Of Engineering And Technology, Vazhakulam, Kerala
17thto 21stAugust 2020	One-week online FDP on "Blockchain Technology and its Applications" held during, organized by JNNCE Shivamogga, in association with NITK Suratkal
10thto 14thAugust 2020,	Five days virtual FDP on "Network Simulation Tools – NS2 and NS3" held during organized by Reva University, Bangalore
22ndto 24thJune 2020	Three days FDP on "Blockchain Technology and its Application" held during, organized by VVCE, Mysore.
15thto 18thDecember 2019	Indocrypt – International Conference on Cryptology organized by CR Rao Advanced Institute of Mathematics, Statistics and Computer Science Hyderabad in association with Cryptology research Society of India
27thMay to 1stJune 2019	E&ICT Sponsored One-week FDP on "New Directions in Cryptography and Applications to Cyber Security" held during organized by SreeVidyanikethan Engineering College Tirupathi. AP.
6th to 10th June 2018	Attended National Instructional Workshop on Cryptology 2018 @ MNNIT Allahabad
30th to 31st October 2018	Attended Ramanujan Math and IT Conference @ IIIT-Bangalore
11th to 13th August 2016	Attended National Workshop on Cryptology 2016 @ J.N.N. College of Engineering, Shimoga,
10th to 16th Dec 2015	One-week conference on "Algebraic Geometry" at Indian Statistical Institute Bangalore
25th to 27th September 2014	Attended "National Workshop on Cryptology 2014" organized by PDPM Indian Institute of Information Technology Design and Manufacturing, Jabalpur.

Certifications
- **NPTEL Certification in Cryptography and Network Security**
- Certified a course on "Fundamentals of Designing and Deploying Computer Networks" by Internet Society
- Completed CodeChef certification in Database Management System

ProfessionalMembership

[1].LifeMemberoftheCryptologyResearchSocietyofIndia(CRSI)-MembershipID:L/0689

[2].Member of Internet Society, a Global Organization - Member Id: 2187718

[3].MemberoftheInternationalAssociationofEngineers(IAENG)MemberNo:326549

PersonalBio-data

Fathers'Name	:	HanumantharayaK
Mothers' Name	:	Shamalamma
DateofBirth	:	12-Nov-1985
MaritalStatus	:	Married
BloodGroup	:	O+
LanguagesKnown	:	Kannada,Hindi,English,Telugu
Religion	:	Hindu– Brahmin
PermanentAddress	:	MurthyD.H.RS/oHanumantharayaK,Retd.Teacher,
		NearBrilliantConvent,DharmapuraVillageandPost,
		Hiriyur Taluk, Chitradurga Dist. Karnataka 577546

ProfessionalReferences

[1]. Dr.G.K.Patra,ChiefScientist,CSIRFourthParadigm Institute(formerlyC-MMACS),NALBelur Campus, Wind Tunnel Road, Bangalore 560 037, Karnataka,
Ph:080-25051356,Mob.+91-9449810625 E-mail:gkpatra.4pi@csir.res.in

[2].Dr.KGMohan,Professor,Dept.ofComputerScienceandEngineering,GITAMSchool Technology, GITAM University, Bangalore 560 060, Karnataka,
Mob:9845202296,E-mail:mkabadi@gitam.edu

[3].Dr.B.N.Shanthapriya,ManagingTrustee,SadhguruShikshanaPrathishta,Drishyakavya, Opp. Sri Mahalingeshwara Temple, Marpalli, Udupi – 574 118, Karnataka, India.
Mob:+91-9448327884,E-mail:drshanthapriya@gmail.com

Declaration

Iherebydeclarethatallthedetailsfurnishedabovearetrueandcorrect tothebestofmy knowledge, information, and belief.

Date:15th June 2025
Place: Bangalore