

Dr. Shanthala P . T

B.E, M.Tech, Ph. D

22 Years of Teaching Experience

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I am Dr. Shanthala P T. I hold B E, in Computer Science and Engineering from Kuvempu University, Karnataka, India, M. Tech in Computer Science and Engineering from Visvesvaraya Technological University[VTU], Belagavi and Doctor of Philosophy in Computer Science Field from Visvesvaraya Technological University, Belagavi, Karnataka, India. I have 22 years of total experience. My primary area of interest is Internet of Things, Wireless Sensor and Security in IoT.

Area of Expertise (Subject Handled): C, Computer Organization, Database Management Systems, Digital Design and Computer Architecture, Microprocessor, Unix and Shell Programming, Algorithms and Data Structures, Theory of computation, Compiler Design, System Software, Computer Networks, Principles of programming Languages, File structures, Internet of Things.

My research focuses on the **Enhanced Security Solution of Internet of Things.**

FDP, workshops & conferences attended:

1. Attended 5 days Intercollegiate FDP on Research Ideas to Patents: A walkthrough organized by T.1john 1institute of 1technology from 19th to 23rd August 2024
2. Attended Workshop on “Project Management with Git” Organized by TIF LABS at T.John Institute of Technology on 26th August 2024
3. Attended one day FDP on Teaching Techniques Using Emerging AR, VR and MR” Organized by Dept. of CSE , PES University(EC Campus on 15th July 2022.
4. Attended 3 day FDP on “Research Proposal Writing and Funding Opportunities”, Organized by Dept. of CSE, PES University(EC campus) from 10 July to 12 th July 2023
5. Attended the workshop on “foundations of Linear Algebra and Machine Learning” Organized by IEE GRSS Bangalore Sections, Department of CSE, PES University(electronic City Campus) and the center for Applied Mathematiccal Modelling and Simulation(CAMMS), 2018

Publications:

1. "A Decentralized and Efficient Crowdfunding Framework for Secure Transaction and User Engagement", Jermin Jeanita, Ramesh, Manjushree, P T Shanthala , Radioengineering, VOL. 34, 2025

DOI: 10.13164/re.2025.0381

2. "An Improved IoT-based Security Model for Fitness Tracker using Quantum Fruit fly Optimization Improved Faster RCNN", Shanthala P T, Dr. D Annapurna, International Journal of Information Technology, 2023 . **2 citations**

<https://www.springer.com/journal/41870> [Q2]

3. "Evaluating the Effectiveness of Tree-based Machine Learning Classifiers for Cybersecurity Threat Detection", G. Vijit kumar Chary, Rohith M, Mahantesh M, M. Nithin Reddy , Shanthala P. T, International Conference on Contemporary Computing and Communications (InC4), September 2023

[DOI: 10.1109/InC457730.2023.10262889](https://doi.org/10.1109/InC457730.2023.10262889)

4. "IoT Botnet Creation and Detection using Machine Learning", Esha H, Basanagouda S Hadimani, Devika S P, Shanthala P T and Bhavana R , 2023 International Conference on Advancement in Computation & Computer Technologies (InCACCT)

[DOI: 10.1109/InCACCT57535.2023.10141717](https://doi.org/10.1109/InCACCT57535.2023.10141717)

5. "Library Automation System Using RFID Tags", Akhilesh Tadake, Amiya Mishra, Prasoon Shukla, Achyuta B and Prof. Shanthala P T , International Conference on Recent Trends in Data Science and its Applications 2023.

[DOI: rp-9788770040723.169](https://doi.org/10.1109/rp-9788770040723.169)

6. "A Novel Approach to Identify Diabetic Macular Edema Using a Minimal CNN Model", Ebin Pm, Athira B Kaimal, U Ananthanagu, Annie Sujith, Shanthala P T , Deepti C
2023 1st International Conference on Optimization Techniques for Learning (ICOTL) 7-8 Dec. 2023

<https://doi.org/10.1109/ICOTL59758.2023.10435002>

7. "Homomorphic Encryption as End-to-End Solution for Smart Devices", Shanthala P T, Dr. D Annapurna, Sravanthi Nittala, Arpitha S Bhat and Aishwarya N.R

IJCSNS, International Journal of Computer Science and Network Security, VOL.22 No.6, June 2022 ,

http://paper.ijcsns.org/07_book/202206/20220610.pdf

8. “An Efficient Secured Internet Model for All Upcoming IoT Applications”, Shanthala P T, Annapurna D, International Journal of Latest Technology in Engineering, Management & Applied Science, Volume VII, Issue VIII, August 2018 | ISSN 2278-2540, www.ijltemas.in/DigitalLibrary/Vol.7Issue8/64-69.pdf
9. “A Portable Smart Band Implementation for Heart Patients in Critical Conditions” , Supreeth Ravi, Venu Ramesh , Aditi Anomita Mohanty, Shanthala P T, International Journal of Engineering Research & Technology (IJERT), <https://www.ijert.org/> ISSN:2278-0181 Vol. 5 Issue 09, September-2016.
10. **”Automation of Data Analysis and Web-Scraping to Value Used Items”**, Shriya, Naren, Aarav, Siddhant, Shanthala P T ,n 3rd IEEE International Conference on Artificial Intelligence for Internet of Things (AIIoT 2024) July , 2024.
DOI: [10.1109/AIIoT58432.2024.10574547](https://doi.org/10.1109/AIIoT58432.2024.10574547)
11. “Comprehensive Student Tracking System using Low Code, No Code”, Dr. Shanthala P T, P Roja Vaishnavi , Chirag Guthi G P, Vishnu Priyan R, Madan M, International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 13, Issue 1, January-2025
12. “Integrating Quantum Key Distribution (QKD) with Post-Quantum Cryptography (PQC): Combining BB84 Protocol with Lattice-Based Cryptographic Techniques”, Swetha Ranganathan; Shanmitha Karthikeyan; Chandrashekhar Pomu Chavan; Shanthala P T, IEEE 4th International Conference on ICT in Business Industry & Government (ICTBIG), 2024.
DOI: [10.1109/ICTBIG64922.2024.10911719](https://doi.org/10.1109/ICTBIG64922.2024.10911719)
ISBN:979-8-3315-1899-8
13. “Development of a Deliberately Vulnerable Linux Kernel” , Divya M , Allen Sam Anand, Dr. Shanthala P T , Archana B S , Sujitha P V, International Journal of All Research

Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 12, Issue 12,
December-2024

Book Publication:

1. “Artificial Intelligence: Essential Neural Networks to Computer Vision”, Ms. Namrata Vardhaman, Dr. Shanthala P T, Dr. Amutha R, Ms. Deepthi C, SAN International Publications.

ISBN: 978-81-983268-5-0

DOI:<https://doi.org/10.59646/cv/294>

2. “Artificial Engineering and Data Science Engineering”, Dr. Ravi Kumar Saidala, Dr. D. Usha Rani, Ms. Indu B, Dr. Shanthala P T, LEILANI KATIE PUBLICATION and PRESS

ISBN: 978-93-6348-419-1

Patent:

1. Title of the invention : Energy Efficient Machine Learning Model optimization for IoT Devices in Dynamic Environments

Patent No.202541005364 A