

CURRICULUM VITAE

Dr. Kavitha Soppari B.Tech(CSE),.M.Tech(CSE), Ph.D(CSE)

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Experience : I am a highly qualified professional with an extensive teaching background of 25 years, specializing in Computer Science Engineering. Throughout my career, I have taught and delivered lectures at both postgraduate and undergraduate levels, focusing on subjects such as Information Security and Image Processing etc., Additionally, I have actively engaged in research activities within these areas, successfully implementing and applying the outcomes of my research. My vast experience in academia has equipped me with a deep understanding of these fields and enabled me to provide valuable insights to my students and colleagues.

Qualification: Reasearch : Ph.D in Computer Science and
Engineering

Post Graduation: M.Tech in Computer Science and Engineering

Degree : B.Tech in Computer Science and Engineering

Research Area: Information Security and Image Processing

Additional Duties : Head of the department since 2005. Coordinator for NBA,
Organized various workshops and paper presentations, Coordinator for various cultural activities. Handled PG courses (M.Tech, MCA).
Guided many projects for B.Tech and M.Tech students . Atteneded refreshers courses, Organized Workshops, conferences. Published Papers. NPTEL SPOC. Project Coordinator

Employment Details:

Name & Address Of The Employer	Nature of work	Duration
Kakatiya Institute of Tech & Science , Warangal	Lecturer	July 1998-Oct 2001
Bapuji Engineering College, Nirmal	Asst.Professor	Oct 2001-Oct 2003
Bhoj Reddy Engg. College for Women , Hyderabad	Asst.Professor	Oct 2003-Mar 2005
TKR college of Engg. and Techconology,Hyderabad	Assoc.Professor	Mar 2005-Nov 2007
Anurag Engg. College,Kodad	Assoc.Professor	Dec 2007- May 2011
HolyMary Institute of Technology and science	Assoc.Professor	May 2011- Feb 2016
Anurag College of Engineering.,Aushapur	Assoc.Professor	Sep 2016- July 2021
ACE Engineering College, Ankushapur	Assoc.Professor	July 2021- Till date

Educational Qualifications:

Degree	Name of University/Board	Name of College and Place	Year of Passing	Year of Passing Marks Obtained
SSC	CBSE	Warangal Public School, Warangal	April ,1991	62% Aggregate
B.Tech	Kakatiya University	Kakatiya Institute of Tech & Science, Warangal	June ,1998	68% Aggregate
M.Tech	J.N.T.U. Hyderabad	J.N.T.U College of Engineering, Hyderabad	Feb,2005	83% Aggregate
Ph.D	J.N.T.U. Hyderabad	J.N.T.U College of Engineering, Hyderabad	July, 2023	

SUBJECTS HANDLED:

1. Python programming
2. Network Programming
3. Operating Systems
4. Information Retrieval systems
5. Intellectual property Rights
6. Advanced problem solving
7. Information Security
8. Data Base Management Systems
9. MFCS(DSGT)
10. Computer Networks
11. Computer Forencics
12. Advanced Unix Programming
13. Digital Speech and Image Processing
14. OOPS through JAVA
14. Language Processors
15. Theory of Computation
16. File Processing
17. Computer Organization
18. OOPS through C++
19. C and Data Structures
20. Multimedia and Web designing
21. Design and Analysis of Algorithms.
22. Artificial Intelligence
23. Advanced Python Programming

CERTIFIED COURSES:

1. **NPTEL DISCIPLINE STAR** April 2023.
2. **Elite** certification by **NPTEL** “ Cloud Computing” April 2023.
3. **Innovative Ambassador Advanced Level** by MOE’s innovation cell & AICTE 2021-2022
4. **Innovative Ambassador foundation Level** by MOE’s innovation cell & AICTE 2021-2022
5. **Elite + Topper** certification by **NPTEL** “ Data Base Management Systems” Oct 2022
6. **Elite + Gold + Topper** certification by **NPTEL** “ Programming in JAVa” April 2022
7. **Elite + Silver** certification by **NPTEL** “ An Introduction to programming through C++” April 2022
8. **Elite + Silver** certification by **NPTEL** “ Programming , Data Structures and Algorithms using Python” March 2022
9. **Elite** certification by **NPTEL** “ Python for Data Science” Aug 2021
10. Certification University of Michigan “Programming for Everybody (Getting Started with Python)” May 2020
11. Coursera Certification University of California, Santa Cruz, “C for Coursera Everyone:structured programming”, May 2020
12. Coursera Certification Duke University ”Programming Fundamentals” May2020
13. Coursera Certification Duke University” Writing, Running, and Fixing Code in C”
14. Coursera Certification Vanderbilt University” Introduction to Programming with MATLAB” May 2020
15. Coursera Certification Osmosis” COVID-19: What You Need to Know (CME Eligible)” May 2020
16. **Elite + Silver** certification by **NPTEL** “ joy of programming in python” April 2019
17. Cisco Certified CLA:Programming Essentials in C, May 2019
18. **Elite + Silver** certification by **NPTEL** on Problem solving through C on April 2018
19. Certified oracle PL/SQL trainer on 5th May 2017
20. Certified Database design and programming in SQL 21st January 2017 by oracle
21. Certified as Microsoft Technical Associate

SOFTWARE SKILLS:

Programming Languages : PYTHON, R programming ,C , C++ ,JAVA, PASCAL , COBOL,VC++,J2EE

RDBMS : ORACLE , PL/SQL

Client/Server technologies : Servlets

Tools : MATLAB,

Internet Technologies :.,HTML,DHTML

Scripting Languages : JAVA SCRIPT, PHP, JSP, ASP

Operating System : WINDOWS-NT/95/98/XP/8/10,UNIX,DOS,LINUX, ANDRIOD

TECHNICAL PUBLICATIONS:

- 1) Mr. Banothu Mohan , Dr. Kavitha Soppari, “Enhancing ECG-Based Biometric Authentication using High-Quality Training Data and Novel Measurement Metrics for Improved Accuracy” International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) Volume 3, Issue 1, July 2023, DOI: 10.48175/IJARSCT-12065
- 2) Kavitha Soppari , K. Chinmayi, G. Srikanth, K. Bhavani Reddy and CH Ramanavasulu, “ Prediction of COVID-19 based on machine learning using cartographic variables” , International Journal of Science and Research Archive, 2023, 09(02), 163–170 DOI: <https://doi.org/10.30574/ijsra.2023.9.2.0511>
- 3) Mrs. Soppari Kavitha¹, B. Bindu Latha, K.L. Bhavya, M.Prashanth, N.Sainath, “Exploring The Contents Of Old Newspapers Using An Augmented Reality Application” International Journal of Engineering Technology and Management Sciences Issue: 3 Volume No.7 May - June - 2023 DOI:10.46647/ijetms.2023.v07i03.123 ISSN: 2581-4621
- 4) Mrs. Soppari. Kavitha, T Sri Vinay , G Sai Teja , P H Rohith, “Dynamically selected watermark insertion using machine learning” World Journal of Advanced Research and Reviews, 2023, 18(03), 577–584. DOI: <https://doi.org/10.30574/wjarr.2023.18.3.1078>
- 5) Mrs. Soppari Kavitha , sugala stuthi , Yalamandala jahnvi , “Survey on Brain Tumor classification and Detection using MRI scan Images” IJIEMR Vol12 Issue 01, Jan 2023. DOI: 10.48047/IJIEMR/V12/ISSUE 01/80
- 6) Mrs. Soppari Kavitha, A. Sathwik Reddy, A. Sindhu, CH. Anil, “Mail Encryption” INTERNATIONAL JOURNAL OF PROGRESSIVE RESEARCH IN ENGINEERING MANAGEMENT AND SCIENCE (IJPREMS) Vol. 02, Conference 01, December 2022
- 7) Mrs.Soppari Kavitha , K.Chinmayi , G.Srikanth , K.Bhavani reddy, CH.Ramanavasulu, “Covid-19 Prediction Based On Cartographic Variables a survey” IJIEMR ,Volume 12, Issue 02, Feb 2023 , DOI: 10.48047/IJIEMR/V12/ISSUE 02/41
- 8) Mrs. Kavitha Soppari, Sri Vinay Tanniru , Sai Teja Gurjala , Rohith Pokala, “ A survey on crypto-enabled watermarking schemes” World Journal of Advanced Research and Reviews, 2022, 16(02), 887–892. DOI: <https://doi.org/10.30574/wjarr.2022.16.2.1254>
- 9) Mrs. Soppari. Kavitha, Busam Bindu Latha, K Lakshmi Bhavya, “A Survey on AR Newspapers” International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) , Volume 2, Issue 1, October 2022 DOI: 10.48175/IJARSCT-7325
- 10) Mrs. Kavitha Soppari, Mr. A.Ramesh, “ Criminal Identification using Face ” ” AICTE Sponsored National Conference on Engineering Applications of Artificial Intelligence (NCEAAI - 2022) 25th and 26 February 2022
- 11) Mrs. Kavitha Soppari, Dr.N.Subhash Chandra, Shubangi Mahule, “ Deep Neural Network based Forgery identification by object Detection in images” AICTE Sponsored National Conference on Engineering Applications of Artificial Intelligence (NCEAAI - 2022) 25th and 26 February 2022

- 12) Mrs. Kavitha Soppari, Ramesh Masuna, “ Study of real time video Analytics for detection of suspicious Behavior using Big Data Analytics ” AICTE Sponsored National Conference on Engineering Applications of Artificial Intelligence (NCEAAI - 2022) 25th and 26 February 2022
- 13) Mrs. Kavitha Soppari, P.Vilash, V. Praveen Kumar, K. Srinivas Reddy, N. Sai Kalyan, “Automatic Attendance Monitoring System using Image Processing” International Journal of Current Science (IJCS PUB), Volume 12, Issue 2 June 2022
- 14) Mrs. Kavitha Soppari, P. Narasimha Rao, P. Akhila, P. Sai Praneeth, P. Sreeja, D. Ravali, “Image Restoration using Residual Generative Adversarial Networks” Journal of Emerging Technologies and Innovative Research , JETIR June 2022, Volume 9, Issue 6. DOI: <http://doi.one/10.1729/Journal.30641>
- 15) Mrs. Kavitha Soppari, Eakeshwari V, Sai Harika E, Vishnuvardhan Reddy V, Divyamsh Reddy A, Prasanthi K “Seed Quality Testing Using Deep Learning And Yolo V5” International Journal of Recent Scientific Research Vol. 13, Issue, 05 (B), pp. 1158-1161, May, 2022. DOI: <http://dx.doi.org/10.24327/ijrsr.2022.1305.0250>
- 16) Mrs. Kavitha Soppari , Dr. N. Subhash Chandra “Automated digital image watermarking based on multi-objective hybrid meta-heuristic-based clustering approach” . *International Journal of Intelligent Robotics and Applications*, Springer. 164–189 (2023). <https://doi.org/10.1007/s41315-022-00241-3>
SCOPUS + WEB OF SCIENCE.
- 17) Mrs. Kavitha Soppari, Dr.N. Subhash Chandra “Development of improved whale optimization-based FCM clustering for image watermarking” **ELESIVER Computer Science Review**, Computer Science Review 37 (2020) 100287 July 2020 **SCOPUS + WEB OF SCIENCE.** <https://doi.org/10.1016/j.cosrev.2020.100287>
- 18) Mrs. Kavitha Soppari, Dr.N.Subhash Chandra “Adaptive Image Watermarking based on Mean-Shift Clustering” **TEST Engineering and Management** , March - April 2020 ISSN: 0193-4120 Page No. 7567 – 7574 **SCOPUS**
- 19) Mrs. Kavitha Soppari, Dr.N.Subhash Chandra "Study of Digital Watermarking Algorithms for Digital Rights Management and their Attacks" International Journal of Computer Trends and Technology (IJCTT) Volume-67 Issue-1,2019. DOI 10.14445/22312803/IJCTT-V67I1P104
- 20) Mrs.S.Kavitha , Illuri Kalyan Kumar, Dandiveni nakul Kumar “A Novel Method for Home Security by Face Recognition System to Visually Impaired” International Journal of Computer Trends and Technology (IJCTT) – Volume 57 Issue 2- March 2018, DOI :10.14445/22312803/IJCTT-V57P115
- 21) Mrs.S.Kavitha , Dr.N.Subhash Chandra “Piecewise Watermarking by clustering using similarity measure in Images”, International Journal of Computer Trends and Technology (IJCTT) – volume 24 Number 2 – June 2015
- 22) P.B.Ranbhare, S.Kavitha, ” Robust Watermarking Using Secret Key Encryption by Embedding Noise in JPEG Image” (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 6 (1) , 2015, 392-394
- 23) Laxman Dande, Soppari Kavitha , ” Novel Framework for Public Auditing with Privacy Preserving in Cloud” SSRG International Journal of Computer Science and

Engineering(SSRG-IJCSE) – volume 2 issue 7 July 2015 ISSN: 2348 – 8387,Page 43
DOI: 10.14445/23488387/IJCSE-V2I7P110

- 24) Mrs.S.Kavitha , Dr.N.Subhash Chandra “Secured Video Watermarking Based On DWT”, International Journal of Modern Trends in Engineering and Research (IJMTER)Volume 02, Issue 01, [January - 2015]
- 25) Ms.Jayashree Rankhambe , Mrs.S.Kavitha,” Optimization of Examination Timetable Using Harmony Search Hyper-Heuristics (HSHH)”, (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 5 (5) , 2014, 6719-6723
- 26) Laxman Dande, Soppari Kavitha, Akash Singh “A Puzzle Based Client-Server Authentication Model with Secure Data Transfer,” International Journal of Computer Trends and Technology (IJCTT) – volume 12 number 5 – Jun 2014, ISSN: 2231-2803<http://www.ijcttjournal.org> Page 231 DOI : 10.14445/22312803/IJCTT-V12P147

FACULTY DEVELOPMENT PROGRAMS:

- 1) 1-Week FDP on “Programming in JAVA” April 2022, NPTEL
- 2) 1-Week FDP on “Programming data structures and algorithms using Python” March 2022, NPTEL
- 3) ½ Week FDP python for Data Science Aug 2021, NPTEL
- 4) 1 Week online short term course on “ Deep Learning” 30th Aug 2021 to 6th sep 2021 , JNTUH
- 5) 3-day Workshop on “Machine Learning and Artificial Intelligence” 4th to 6th May 2020
- 6) 1-Week Workshop on “Advances in " Python(Django and Flask), Python for Data Science and CyberSecurity” 21st to 27th May 2020
- 7) 7-day Workshop on “R Programming” 4th to 10th May 2020
- 8) 1-Week Workshop on “JAVA programming” 26th May To 30th May 2020
- 9) 1-Week Workshop on “ICT tools” 11th - 16th May, 2020
- 10) 5-day Workshop “Cyber Security” 23rd-27th May 2020
- 11) 5-day FDP “IPR Awareness and Patent Prosecution” 6th – 10th May 2020
- 12) 1-Week FDP on “innovations to Academicians” 11th to 16th May
- 13) 3-day FDP on ”Network Simulation and protocol Analysis” 23rd to 25th May
- 14) 1-Week FDP on “Linux Foundations and Implementation of Data Structures” 11th-16th May
- 15) 5-Day FDP on “Artificial Intelligence” from 22nd to 26th May 2020
- 16) 1-Week FDP on “PHP and MySQL” 18th to 23rd May 2020
- 17) 5-Day FDP on “PHP and MySQL” 18th to 23rd May 2020
- 18) 1-Day Workshop on Publishing Engineering Education Research on 10th July 2019
- 19) Organized 3-Day Workshop on Scientific Applications through MATLAB as recourse person from 2nd July 2018 to 4th July 2018
- 20) 1-Week FDP on Python Programming and Django Framework 25th to 30th June 2018
- 21) 2-Day Workshop on Android Application Development 20th and 21st Feb 2018
- 22) 3-Day workshop on Interfacing Sensors and Actuators in Embedded Systems 21st -23rd June 2018
- 23) 1-Week FDP on Data Science and Python Programming 11th to 16th December 2017
- 24) Organized 3-Day Student Orientation Program as recourse person from 9th to 11th August 2017
- 25) 2-Day FDP on python programming 10th,11th july 2017

- 26) 1-Day workshop on Digital Design through PI 14th December 2017
- 27) 2-Day HD Delivery mechanism for Teaches & students eLSDM 6th, 7th August 2014
- 28) 2-Day National Conference on Information Security 31st 1st Feb 2014
- 29) 2-Week FDP Statistical Package and their Applications in Business Research 23rd July to 6th August 2012
- 30) 2-Day work shop on „Role of Web Applications in Emerging e-Business“ 29th ,30th Aug 2008
- 31) 2-Week Refresher course on “An advanced Technology programme (Research Oriented) on Network Programming 9th to 21st June 2008
- 32) 2-Day conference on Gyan Lahari 3rd -4th Feb 2007
- 33) 3-Week Refresher Course on Computer Vision and Satellite Image Processing 5th -24th march 2007
- 34) 3-Day workshop on recent trends in image and speech processing 7th to 9th Dec 2006
- 35) 2-Day Workshop on Communication skills 30th ,31st July 2004

Papers Reviewed:

1. ”Self Adaptive Monarch Butterfly Optimization(MBO) algorithm based improved Deep Forest Neural Network Model for Detecting and classifying Brain Stroke lesions” IJCA may 2021
2. “Clustering in MANET using Hybrid Fruit Fly and Whale Optimization Algorithm” Journal of Ambient Intelligence and Humanized Computing. Nov 2020

Textbook Contribution:

1. Was one of the reviewer for the book entitled “Fundamentals of python.” Indian edition. I have written two chapters .

PhD Work:

I have completed my Ph.D in the area of Information Security entitled “Digital watermarking using Evolutionary Algorithms” Multimedia content protection during the transmission can be solved by using cryptographic methods, which realized encryption of the content of the multimedia. Received multimedia after decryption in the receiver are not protected any more. The problem of the multimedia content protection after the decryption on the receiver can be solved by using digital watermarking method, which performed embedding of the imperceptible information into the multimedia content and this information should not be easy removable by using the basic media processing techniques. Digital watermark technology is an advanced field in international academic research, which embeds digits, serial numbers, characters, image signs and other copyright information into multimedia data for copyright protection. The outcome of my research is to protect digital multimedia data in the networks , otherwise investigators will soon “hit the wall” and be restricted to collecting data from small, non-networked computers only.

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Dr. S.KAVITHA

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