# Staffs Details :

## Campus - EC Campus - Computer science

**Dr. Sandesh B J :**

Chairperson, Professor

**Education**

- PhD, visheshwaraiah technology university, 2018
- Mtech, visheshwaraiah technology university, 2001
- B.E, Karnatak University, Dharwad, 1997

**Experience**

- Professor & Chairperson, PES University Electronics City Campus, 2019 - till date
- Associate professor & Head of the Department, PESIT Bangalore South Campus, 2012 - 2019
- Assistant Professor & Head of the Department, PES School of Engineering, 2008 - 2012
- Assistant professor, PES School of Engineering, 2007 - 2008
- Senior Lecturer, PES School of Engineering, 2006 - 2007
- Lecturer, J.N.N College of Engineering, 2001 - 2006

**Teaching**

Machine Learning, Data Warehousing and Mining, Data Structures and its Applications, Analysis and Design of Algorithms, Operating Systems, Advanced Operating Systems, Database Management Systems, Computer Networks, Object Oriented Modeling and Design, Software Engineering, Object Oriented programming with 'C++', Programming in 'C', Programming in JAVA

**Responsibilities**

- Professor & Chairperson
- Chair, IEEE
- Campus coordinator, Student Affairs

**Research Interest**

- Multimodal Data Mining, Computer Vision, Machine Learning.

**Conferences**

- Raunak Bhupal, Kalindi Lakshmi Sanjana, Nikhil Kishan Khandera, Prakhar Bhartiya, Achaladi Spoorthi Bhat and Sandesh B, Finger Vein Authentication System, International

Conference on Computer Communication and Informatics (ICCI), Coimbatore, India, April 2021.
- Goutham Pacha Ravi, Sandesh Banakal Jayanth and Gowri Srinivasa, Text Based Video Indexing for a Way-Back Machine for Television News, International Conference on Pattern Recognition Applications and Techniques, Chennai, India, March 2013.
- B. J. Sandesh, V. Gupta, A. Lathoy, G. Srinivasa, A multiscale active contour transformation-based toolbox for the extraction of white matter from brain fMRI images, Proc. Int. Conf. on Electronic Design and Signal Proc., Manipal, India, Dec 2009.

**Journals**

- Sandesh B J and Gowri Srinivasa, A Team Recommendation System and Outcome Prediction for the game of Cricket, journal of Sports Analytics, vol 4(1), pp 263-273, April 2018.
- Sandesh B J and Gowri Srinivasa, Text Mining based Localization of Player Specific Events from a Game Log of Crickets, International journal of Computer Applications in Technology, vol 55(1), pp 213-221, July 2017.
- Sandesh B J and Gowri Srinivasa, A Framework for the Automated Generation of Paradigm-Adaptive Analysis of Games, International journal of Computer Applications in Technology, vol 54(2), pp 276-285, October 2016.
- Sandesh B J, Srij G Vidya, E Jey S Grinivasa, Lecture Video Indexing and Retrieval Using Topic Modeling, International journal of Advanced Engineering and Technology, vol 11(8), pp 1637-1645, August 2020.
- Sandesh B J and G Srinivasa, Automated Classification of Cricket Pitch Frames in Cricket Videos, Electronic Letters on Computer Vision and Image Analysis, vol 13 (1), pp 43-49, July 2014.

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**Dr. Arti Arya :**

Professor

**About**

- Dr. Arti Arya completed her B.Sc. (Hons) in Mathematics in 1994 and M.Sc. in Mathematics in 1996 from Delhi University. She later earned her M.Tech in Computer Science and Engineering from Allahabad Agricultural University and received her Ph.D. in Computer Science from Delhi University.
- She served as a Professor and Head of the MCA Department at PESIT, Bangalore South Campus, until August 2020. Since then, she has been a

Professor in the Department of Computer Science Engineering at PES University. With over 24 years of academic experience, including 15 years dedicated to research, Dr. Arya's expertise spans Spatial Data Mining, Natural Language Processing, Machine Learning, Artificial Intelligence, Graph Neural Networks, Generative AI, Unstructured Data Management, Applied Numerical Methods, and Biostatistics.

- She is a member of ACM, a life member of CSI, and a Senior Member of IEEE. Additionally, she serves on the reviewer board of several reputed international journals, including SNAM (Scopus indexed) and JCDs (Scopus indexed). Dr. Arya has approximately 70 publications in various esteemed international conferences and journals.
- She is currently guiding 3 PhD scholars and has supervised approximately 200 undergraduate students for various research projects. Further details can be found on her LinkedIn profile: https://in.linkedin.com/in/artiarya.

**Education**

- PhD(CSE), Maharishi Dayanand State University, 2000
- M.Tech(CSE), Allahabad Agricultural University, 2005
- M.Sc(Mathematics), Delhi University, 1996
- B.Sc(Mathematics) Honors, Delhi University, 1994

**Experience**

- Professor (CSE), PES University, Aug 2010 - Now
- Professor and HoD(MCA), PESIT-Bangalore South Campus, Feb 2019 - Aug 2020
- Assistant Professor (CSE), PESSE, Bangalore, Feb 2009 - Jan 2010
- Senior Lecturer (Selection Grade), Career Institute of Technology (Now Manav Rachna International University, Faridabad), 2000 - 2007
- Lecturer, Career Institute of Technology (Now Manav Rachna International University, Faridabad), 1998 - 2000

**Achievements**

- Senior Member IEEE, Life Member CSI, Member IAENG.
- Chaired two sessions at ISCON 2019, GLA, UP.
- Was invited as an Expert Speaker at one week STTP on Advancements in Artificial Intelligence and Machine Learning in March 2021.
- Chaired a session in National Conference at CMRIT, Bangalore in March 2014.
- Reviewer for Scopus indexed Springer Journal (SNAM).
- Reviewer for IEEE sponsored ICCES, Egypt Cairo from 2011 to 2016.

- Chaired a session on Data Mining and Networking in IEEE Conf. IC-IMPETUS 2014. Delivered a talk at a World Congress in Trichy in St. Joseph College, on 01 March 2014. Co-chaired a session in RETCOMP 11-13 2013. Co-Chaired a paper presentation session at 1st Int. Conf. on Multimedia processing, Communication and Computing Applications (13-15 Dec 2012) at PESIT, Bangalore. Delivered a talk on Con.

**Teaching**

- Machine Intelligence
- Natural Language Processing
- Data Mining
- Databases
- Advanced Databases
- Artificial Intelligence and Gen AI
- Graph Theory and Graph Machine Learning
- Managing Big Data
- System Simulation and Modeling, Principles of User Interface
- Design and Analysis of Algorithms
- Management and Information System
- Engineering Mathematics, Operation Research, Discrete Mathematics, Applied Numerical Methods, Statistics
- Gen AI and its Applications

**Responsibilities**

- Currently serving as Professor in CSE Dept since Aug 2020.
- Currently mentoring 15 Undergraduate Project Batches.
- Heading a domain of Artificial Intelligence and Data Science in the Department.
- Headed MCA dept., involved in all administrative departmental work, coordinating functioning of department properly.
- As HoD, did all department related activities for uplifting the department.
- Conducted various Workshops in the college for the benefit of students and faculties.
- In past years, ICCI Trinity launch is organized under my mentorship in college premises.
- Was member of BOE (Board of Examination) deputed by University in 2012.
- Actively participated in BOS meetings and was responsible for developing Course material for one stream (Databases) in MCA curriculum (2013).
- Conducted Departmental Annual Fest (for MCA) Esperanza from 2013 to 2017.
- Took students for Industrial visits to Infosys and CISCO in 2011 and 2012.

**Research Guidance**

- Currently guiding 3 Research Scholars in the area of Natural Language Processing and Recommendation Engines (Machine Learning).
- One Research Scholar was conferred PhD under my guidance as a co-guide in the area of Customer Relationship Management Using Machine Learning.

**Publications**

- Monica Sneha, Arti Arya, and Pooja Agarwal. 2020. Ransomware Detection techniques in the Dawn of Artificial Intelligence: A Survey. In 2020 The 9th International Conference on Networks, Communication and Computing (ICNCC 2020). Association for Computing Machinery, New York, NY, USA, 26-33. DOI: https://doi.org/10.1145/3447654.3447659
- S. Shekhar, K. Kartikey and A. Arya, "Integrating Decision Trees with Metaheuristic Search Optimization Algorithm for a Student's Performance Prediction," 2020 IEEE Symposium Series on Computational Intelligence (SSCI), 2020, pp. 655-661, doi: 10.1109/SSCI47803.2020.9308241.
- Punagin S, Arya A. A Novel Query Obfuscation Scheme with User Controlled Privacy and Personalization. International Journal of Computer Applications. 2017;975:8887.
- A. A. Ballakur and A. Arya, "Empirical Evaluation of Gated Recurrent Neural Network Architectures in Aviation Delay Prediction," 2020 5th International Conference on Computing, Communication and Security (ICCCS), 2020, pp. 1-7, doi: 10.1109/ICCCS49678.2020.9276855.
- Mishra A., Arya A., Devanand H.R. (2021) Location-Based Sentiment Analysis of the Revocation of Article 370 Using Various Recurrent Neural Networks. In: Garg L., Sharma H., Goyal S.B., Singh A. (eds) Proceedings of International Conference on Innovations in Information and Communication Technologies. ICI2CT 2020. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-15-6566-3_17
- K. Pathak and A. Arya, "A Metaphorical Study of Variants Of Recurrent Neural Network Models For A Context Learning Chatbot," 2019 4th International Conference on Information Systems and Computer Networks (ISCON), 2019, pp. 768-772, doi: 10.1109/ISCON47742.2019.9036167.
- Tiwari, V.S., Arya, A. & Chaturvedi, S. Scalable prediction by partial match (PPM) and its application to route prediction. Appl Inform 5, 4 (2018). https://doi.org/10.1186/s40535-018-0051-z (SCOPUS Indexed)
- N. Karunakaran and A. Arya, "A Scalable Hybrid Classifier for Music Genre Classification using Machine Learning Concepts and Spark," 2018 International

Conference on Intelligent Autonomous Systems (ICoIAS), 2018, pp. 128-135, doi: 10.1109/ICoIAS.2018.8494161.

**Books**

Sharma, R., Agarwal, P., & Arya, A. (2022). Natural language processing and big data: a strapping combination. In New Trends and Applications in Internet of Things (IoT) and Big Data Analytics (pp. 255-271). Cham: Springer International Publishing.

Tiwari, V.S., Arya, A. Horizontally scalable probabilistic generalized suffix tree (PGST) based route prediction using map data and GPS traces. J Big Data 4, 23 (2017). https://doi.org/10.1186/s40537-017-0085-4 (SCOPUS Indexed)

## Conferences

1. Arya A, Agarwal P. **Fuzzy Decision Tree based Automatic Classifier for Customer Loyalty**. In Proc. Of Intl. Conf. on Data Management 2010.
2. Sharma R., Arya T., Arora S., Arya A., Agarwal P. (2019). **A Naive Deep Nets Based Approach for Authenticating Viral Textual Content on Social Media**. In: Arai K., Kapoor S., Bhatia R. (eds) Intelligent Systems and Applications. IntelliSys 2018. Advances in Intelligent Systems and Computing, vol 869. Springer, Cham. https://doi.org/10.1007/978-3-030-01057-7_52
3. T. Chaitra, S. Agrawal, J. Jijo and A. Arya, **Multi-Objective Optimization for Dynamic Resource Provisioning in a Multi-Cloud Environment using Lion Optimization Algorithm**, 2020 IEEE 20th International Symposium on Computational Intelligence and Informatics (CINTI), 2020, pp. 000083-000090, doi: 10.1109/CINTI51262.2020.9305822.
4. N. Mane, A. Verma and A. Arya, **A Pragmatic Optimal Approach for Detection of Cyber Attacks using Genetic Programming**, 2020 IEEE 20th International Symposium on Computational Intelligence and Informatics (CINTI), 2020, pp. 71-76, doi: 10.1109/CINTI51262.2020.9305844.
5. Ramesh, N., Dabbiru, S., Arya, A., & Rehman, A. (2021, November). **A Novel Rule-Based Recommender System For The Indian Elderly Diabetic Population**. In 2021 5th International Conference on Informatics and Computational Sciences (ICICoS) (pp. 41-46). IEEE.
6. Abishai Ebenezer, M., & Arya, A. (2022). **An Atypical Metaheuristic Approach to Recognize an Optimal Architecture of a Neural Network**. In ICAART (3) (pp. 917-925).

7. Tiwari VS, Chaturvedi S, Arya A. **Route prediction using trip observations and map matching**. In 2013 3rd IEEE International Advance Computing Conference (IACC) 2013 Feb 22 (pp. 583-587). IEEE.
8. Tiwari VS, Arya A, Chaturvedi S. **Framework for horizontal scaling of map matching: using map-reduce**. In 2014 International Conference on Information Technology 2014 Dec 22 (pp. 30-34). IEEE.
9. Venkatesh V, Arya A, Agarwal P, Lakshmi S, Balana S. **Iterative machine and deep learning approach for aviation delay prediction**. In 2017 4th IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics (UPCON) 2017 Oct 26 (pp. 562-567). IEEE.
10. Kishore, B. R., Amogh, V. R., Vrushab, S., Kumar, C. A., & Arya, A. (2022, January). **Enhancing the Coherence of a Meta Search Engine using Genetic Algorithm**. In 2022 4th International Conference on Smart Systems and Inventive Technology (ICSSIT) (pp. 1562-1568). IEEE.
11. Khatwani S, Arya A. **A novel framework for envisaging a learner's performance using decision trees and genetic algorithm**. In 2013 International Conference on Computer Communication and Informatics 2013 Jan 4 (pp. 1-8). IEEE.
12. Nitish, S., Darsini, R., Shashank, G. S., Tejas, V., & Arya, A. (2022, January). **Bidirectional encoder representation from transformers (bert) variants for procedural long-form answer extraction**. In 2022 12th International Conference on Cloud Computing, Data Science & Engineering (Confluence) (pp. 71-76). IEEE.
13. Seshu, V., Shanbhag, H., Rao, S. R., Venkatesh, D., Agarwal, P., & Arya, A. (2022, January). **Performance analysis of bollinger bands and long short-term memory (LSTM) models based strategies on NIFTY50 companies**. In 2022 12th International Conference on Cloud Computing, Data Science & Engineering (Confluence) (pp. 184-190). IEEE.
14. Oasis, A. S., Sharma, D., Sada, R., & Arya, A. (2022, January). **Question-Centric Evaluation of descriptive answers using attention-based architecture**. In 2022 12th International Conference on Cloud Computing, Data Science & Engineering (Confluence) (pp. 20-25). IEEE.
15. Durvasula, H., Vrinda Kakarla, S., Thazhemadam, A., Roy, R., & Arya, A. (2022, March). **Prediction of Material Properties using Crystal Graph Convolutional Neural Networks**. In 2022 7th International Conference on Machine Learning Technologies (ICMLT) (pp. 68-73).
16. N. Karunakaran and A. Arya, **A Scalable Hybrid Classifier for Music Genre Classification using Machine Learning Concepts and Spark**, 2018 International Conference on Intelligent Autonomous Systems (ICoIAS), Singapore, 2018, pp. 128-135, doi: 10.1109/ICoIAS.2018.8494161.

17. Mishra, A., Jefferson, O. J., Kapur, P., Kannur, K., Agarwal, P., & Arya, A. (2023, June). **Swarm Learning In Autonomous Driving: A Privacy Preserving Approach**. In Proceedings of the 2023 15th International Conference on Computer Modeling and Simulation (pp. 271-277).
18. Bardhan, M., Rishon Manoj, J., Raveendra Acharya, R., Datta, I., & Arya, A. (2022, March). **Transferring Learnt Features from Deep Neural Networks trained on Structured Data**. In 2022 7th International Conference on Machine Learning Technologies (ICMLT) (pp. 62-67).
19. Santhosh, S. K., Kayshap, S. R., Lakka, S. R., & Arya, A. (2022, April). **Signed English Recognition with Spatio-Temporal Graphs and Language Modelling**. In 2022 IEEE 7th International conference for Convergence in Technology (I2CT) (pp. 1-7). IEEE.
20. Chennur, B. G., Shastry, N., Monish, S., Hegde, V. V., Agarwal, P., & Arya, A. (2022, September). **Optimal Scheduling of Processing Unit Using Convolutional Neural Network Architecture**. In Proceedings of SAI Intelligent Systems Conference (pp. 478-487). Cham: Springer International Publishing.
21. Vijay, J. S., Kulkarni, K., & Arya, A. (2022, May). **Metaheuristic Optimization of Neural Networks for Phishing Detection**. In 2022 3rd International Conference for Emerging Technology (INCET) (pp. 1-5). IEEE.
22. Nallamalli, S. K., Shrithva, D. M., Samant, I., Nair, A. A., Agarwal, P., & Arya, A. (2022, April). **Automatic Self Calibrated Measurement System Using 3D Modelling**. In 2022 IEEE 7th International conference for Convergence in Technology (I2CT) (pp. 1-6). IEEE.
23. Joseph, C. S., Kini, V., Suhas, S., Nagori, D., Arya, A., & Agarwal, P. (2022, April). **Metaheuristic Approach for Optimizing Supply-Demand Algorithms**. In 2022 IEEE 7th International conference for Convergence in Technology (I2CT) (pp. 1-7). IEEE.
24. Avinash, V. K., Pattanayak, S., Raghuraman, V., Prakash, S., & Arya, A. (2022, April). **Length Controllable Literature Summarization Using Transformers**. In 2022 IEEE 7th International conference for Convergence in Technology (I2CT) (pp. 1-5). IEEE.

## Journals

1. Sharma, R., & Arya, A. (2023). **LFWE: Linguistic Feature Based Word Embedding for Hindi Fake News Detection**. ACM Transactions on Asian and Low-Resource Language Information Processing.
2. Tiwari, V.S., Arya, A. **Horizontally scalable probabilistic generalized suffix tree (PGST) based route prediction using map data and GPS traces**. J Big Data 4, 23 (2017). https://doi.org/10.1186/s40537-017-0085-4 (SCOPUS Indexed)

3. Pathak K, Arya A, Hatti P, Handragal V, Lee K. **A Study of Different Disease Detection and Classification Techniques using Deep Learning for Cannabis Plant**. International Journal of Computing and Digital Systems. 2021 Jan 1;10(1):53-62. (SCOPUS Indexed)
4. Arya A, Yaligar V, Prabhu RD, Reddy R, Acharaya R. **A knowledge based approach for recognizing textual entailment for natural language inference using data mining**. International Journal on Computer Science and Engineering. 2010 Nov;2(06):2133-40.
5. Arya A, Ragini S, Kumar H, Abinaya G. **A text analysis based seamless framework for predicting human personality traits from social networking sites**. International Journal of Information Technology and Computer Science (IJITCS). 2012;4(10):29.
6. Subhashini C, Arya A. **A Framework For Extracting Information From Web Using VTD-XML's XPath**. International Journal on Computer Science and Engineering. 2012 Mar 1;4(3):463.
7. Punagin S, Arya A. **Privacy in the age of pervasive internet and big data analytics—Challenges and opportunities**. International Journal of Modern Education and Computer Science. 2015 Jul 1;7(7):36-47.
8. Vishnu Shankar Tiwari, Sudha Chaturvedi, Arti Arya, **Map reduce-based scalable Lempel-Ziv and application in route prediction**. In Intl. J, of Big Data (IJDB, Inderscience)
9. Prasad MC, Florence L, Arya A. **A study on software metrics based software defect prediction using data mining and machine learning techniques**. International Journal of Database Theory and Application. 2015;8(3):179-90.
10. Pooja A, J Surya P, Arti A. **A Naïve Hopfield Neural Network based Approach for Multiclass Classification of Customer Loyalty**. Communications on Applied Electronics (CAE) – ISSN: 2394-4714, Foundation of Computer Science FCS, New York, USA, Volume 2 – No.5, July 2015 – www.caeaccess.org
11. Tiwari, V.S., Arya, A. **Distributed Context Tree Weighting (CTW) for route prediction**. Open geospatial data, softw. stand. 3, 10 (2018). https://doi.org/10.1186/s40965-018-0052-9 (SCOPUS Indexed)

## Others

Prem, A., Joshi, A., Madana, H., Jaywanth, J., & Arya, A. (2023, March). **Attention Based Evolutionary Approach for Image Classification**. In 2023 15th International Conference on Computer and Automation Engineering (ICCAE) (pp. 237-243). IEEE

**Deepa S :**

Professor

Teaching

**Dr. Farida Begam M :**

Professor

Teaching

## About

Dr. M. Farida Begam completed Ph.D., in Computer Science and Engineering in Bharathidasan University, India, in 2015 received M.Tech in Computer Science, from the National Institute of Technology, Trichy, India in 2006 and pursued her bachelor's degree B.E in Computer Science and Engineering in Mookambigal College of Engineering, Bharathidasan University, Trichy in 1998. She had worked as a Professor and Head of the Department, Information Science and Engineering at CMR Institute of Technology, Bangalore. She is a Senior IEEE Member. Dr. Farida is an academician for 24 years and published Scopus indexed papers in reputed journals and Conferences. She is passionate in continuous teaching/learning processes and involved in research related student centric learning methodologies. She worked in University of Bolton, RAK, UAE as an Adjunct Professor. She worked as an Adjunct Faculty in Higher Colleges of Technology Dubai Women's College, Murdoch University, Dubai and as a Senior Lecturer in the Department of Engineering and Information Technology, Manipal University Dubai Campus and handled various IT related basic and advanced courses. She also had industry experience and worked as a Technical Evangelist in the Education and Research department in Infosys Technologies Ltd., India. She is a Cisco Certified Network associate (CCNA) and handled CCNA training courses in Manipal University Dubai Campus. Her research domain includes Machine/Deep Learning, NLP, Semantic Web and Knowledge Management.

## Education

- Ph.D, Bharathidasan University, Trichy, 2015
- M.Tech, NIT, Trichy, 2006
- B.E, Bharathidasan University, Trichy, 1998

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## Experience

- Professor and Head, CMR Institute of Technology, ISE Dept., Bangalore, 2018 - 2024

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## Achievements

- University Rank Holder (6th Rank) in UG B.E - Bharathidasan University
- 4th Topper in M.Tech - NIT Trichy
- obtained National Level Merit Scholarship
- CCNA Certified - got Appreciation from CISCO CEO for securing >90%
- Conference chair, IEEE 4th International Conference on Communication, Computing and Industry 6.0 conducted in CMRIT, Bangalore., Dec 15-16 2023
- Senior IEEE Member Member ISTE Member ISCA

## Books

- Geetha, S., M. Farida Begam, Ayush Dubey, Ayush Sengar, and Joshua Samuel Raj. "Analyzing and Forecasting of COVID-19 Situation Using FbProphet Model Algorithms." In *Principles and Methods of Explainable Artificial Intelligence in Healthcare*, pp. 94-112. IGI Global, 2022.

## Conferences

- G Gayathri, M. Farida Begam, G Aashika, "Machine Learning based Learning Style Detection using Felder-Silverman Framework", 3rd International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES 2023) - presented IEEE Conference

- Chamann S, M. Farida Begam, Chandran N S, Girish G S "Medicinal Plants Attribute Detection by Deep learning Image Processing Techniques", IEEE Conference: 2023 4th International Conference on Communication, Computing and Industry 6.0(ICCCI 2023), IEEE Explore

- Bhuvaneshri Shathyam R, M. Farida Begam, Jaswanth K., "Knowledge Graph Based Medical Chatbot building", IEEE Conference: 2023 4th Global Conference for Advancement in Technology (GCAT 2023) IEEE Explore

- E. V. P., M. F. Begam and M. N. Shashikanth, "Automated Medical Recommendation System using Machine Learning Techniques & Natural Language Processing," 2022 3rd International Conference on Communication, Computing and Industry 4.0 (C2I4), Bangalore, India, 2022, pp. 1-6, doi: 10.1109/C2I4R67862.2022.10051457.

- M. F. Begam, "Domain Ontology Construction using Formal Concept and Relational Concept Analysis," 2021 2nd Global Conference for Advancement in Technology (GCAT), 2021, pp. 1-9, doi: 10.1109/GCAT52182.2021.9587858.

- Gautam Chanchal, Dhruva Vatsa Mishra, M. Farida Begam, & Akhilesa, (2019), "Customer Aware Recommendation Engine using Hot posts notifications in an e-commerce", GCAT 2019 Global Conference for Advancement in Technology, IEEE Conference SCOPUS

- S. Delphine Immaculate, M. Farida Begam, & M. Florence Mary, (2019), "Software Bug Prediction using Supervised Machine Learning Algorithm", ICCIDS 2019 International Conference on Computer Intelligence and Data Science 2019 IEEE Conference SCOPUS

- M. Farida Begam and Sophia Rani (2012), “SEALMS: Semantically Enhanced adaptive learning management system for Computer based learning content”, Artificial Intelligence (SAI-12), Dec 28, 2012, Dubai, UAE. ISBN : 978-1-921987-09-6 pp 49 57

- M. Farida Begam and Sophia Ganapathy (2011), “Knowledge Engineering Based Semantic Reasoning Ontology for E-learning systems”, in proc. of International Conference on Advanced Computer Science Applications and Technologies (ICACSIT), 2011 Dec 17-18, 2011, Jakarta, Indonesia. Print ISBN: 978-1-4577-1688-9

- Niazi M. Javid and Begam M. Farida (2011) Collaborative learning Technologies: An Effective Learning Environment for Student in Higher Education, in Proceedings of INTCESS11- International Conference on Education and Social Sciences, held on Dubai, U.A.E, pp 49-57

- M. Farida Begam and Sophia Ganapathy (2010), “Semantically Enriched Web Services Based Framework for e-learning Systems”, International Conference March 30, 31, 2010. Conference conducted by Arab Research Forum held at Dubai.

- M. Farida Begam, (2009), “A comprehensive study on Risk Management in Web Services,” Proceedings in Middle East Conference on Information Security on 25th -26th February 2009, Dubai, U.A.E., pp 1-15

- Sophia Rani A. and M. Farida Begam, (2008), “Role and Significance of web services in Facilitating Education via Internet,” the second UAE Symposium on Web Services, 15th -26th April 2009 Zayed University, Dubai, U.A.E.

## Journals

- Rosline Mary and M. Farida Begam, (2020), "A comprehensive survey on deep learning based automated Diabetic Retinography Detection", *Journal of Xidian University*, Volume 14 Issue 7, Page No: 1995 - 2006 https://doi.org/10.37896/jxu14.7/231

- K.R.Sekar, G.janakiramani, R.Manikandan, M.Farida Begam, R.Krishnakumar, (2018), "An ensemble approach for data privacy and preservation using discrete cosine and wavelet transforms", *International Journal for Pure and Applied Mathematics*, Volume 118/24 IS.S0 158, July 2018

- M. Farida Begam & Gopinath Ganapathy, (2016), "Personalized learning management system using semantic web based learning style detection", *Journal of Chemical and Pharmaceutical Sciences*, JCPS Oct - Dec 2016 Volume 9 Issue 4 1837-1842, ISSN: 0974 2115 (SCOPUS indexed)

- M. Farida Begam & Gopinath Ganapathy (2014), "Ontology based Dynamic e learning flow Composition of Learning Web Services", *Research Journal of Applied Sciences Engineering and Technology* RJASET, ISSN: 2040 -7467 (online) Jan 25, 2014 (SCOPUS indexed).

- M. Farida Begam and Gopinath Ganapathy (2013), "Adaptive learning management system Using Semantic Web Technologies", *International Journal on Soft Computing (IJSC)*, ISSN: 2229 - 6735 [Online] : 2229 - 7103 [Print], Vol 4 Number 1 Feb, 2013

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# Dr. Gowri Srinivasa

Professor
Teaching

### About

Gowri Srinivasa graduated with a bachelors in Computer Science from PES Institute of Technology, Bangalore in 2004 and then worked with Prof. Jelena Kovacevic, obtaining her PhD in Biomedical Engineering from Carnegie Mellon University in 2008. Since September 2008, she has been a Professor at PES, heading the Center for Pattern Recognition. She has worked with over a hundred students at the undergraduate and graduate levels on various projects focusing primarily on the application areas of Biomedicine/healthcare and Education and has designed and taught courses related to Data Science, such as data analytics, image and video processing and analysis, machine learning and natural language processing during the semester and over the summer. Gowri has been a Member of the IEEE since 2005 (Senior Member since 2014), an Associate Member of the TC of BISP during 2009-2013 and elected a Member of the TC for two consecutive terms: 2014-2016 and 2017-2019. She holds a patent from the USPTO (2014) for a multimodal communication assist device that helps people who are blind communicate with deaf-mute persons.

### Education

- PhD – Biomedical Engg., Carnegie Mellon University
- BE – Computer Sc. and Engg, PES Inst of Tech (VTU)

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## Additional Information

- DOJ: Oct 24, 2017
- Experience: Teaching: 9 years 2 months (PESIT South Campus), 4 years 2 months (PESU), Research: 4 years (CMU), 13 years (PES)

## Teaching

- **Data Analytics**: Aug - Dec 2016 · 2022
- **Digital Image Processing and Computer Vision**: Jan - May 2016, Jan - May 2022
- **Reinforcement Learning**: Aug - Dec 2019, Jan - May 2021
- **Past courses (VTU)**:
    - Pattern Recognition
    - Machine Learning (MTech)
    - Data Mining
    - Digital Image Processing (CSE)
    - Image Processing (ECE)
    - Computer Concepts and C Programming
    - Information and Network Security
    - Software Engineering

## Responsibilities

- Coordinator, International Research Internships in Science and Engineering (IRISE)

- Guiding of PhD candidates (3 scholars have been awarded degrees by VTU)

- Consultant (next generation of learning assessments and analytics) for PESU Academy

## Research Interest

- Focused primarily in the application areas of Biomedicine, Healthcare and Education

- Automated detection of retinopathy of prematurity based on retinal images (with Narayana Nethralaya)

- Application of AI to predict novel binding of small molecules to oncological targets for drug discovery (with CubeBio)

- Automated generation of questions and automated assessment strategies (for PESU Academy)

## Books

- G. Srinivasa, “Active Mask Framework for the Segmentation of Fluorescence Microscope Images”, PhD Dissertation (2008), Carnegie Mellon University. ISBN: 9781468 149357, July 2012.

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## Conferences

- D. Honnavalli, K. Varma and G. Srinivasa, “VIRTEXS: Virtual Screening Of Therapeutic Classes Using Encodings of Chemical Structures”, Proc. of IEEE Fifth International Conference on Research in Computational Intelligence and Communication Networks, Bengaluru Nov. 26-27, 2020.

- S. B. Hathwar and G. Srinivasa, “Automated grading of diabetic retinopathy in retinal fundus images using deep learning”, Proc. IEEE Intl. Conf. on Signal and

Image Processing Applications, Kuala Lumpur Sep. 17-18, 2019.

- T. D. Prakash, D. Rajasekhar and G. Srinivasa, “Comparison of Algorithms for the Segmentation of Blood Vessels in Fundus Images”, Proc. of IEEE International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT), Bengaluru, July 21-23, 2016.

- A. Kavisi, S. Shastri, A. R. Deshpande, J. Doreswamy and G. Srinivasa, “A Score Recommendation System Towards Automated Assessment in Professional Courses”, Proc. of the 8th International Conference on Technology for Education (T4E), IIT Bombay, Mumbai, Dec. 2-4, 2016.

- T. Dhamarsi, R. Jawahar, K. Mahesh and G. Srinivasa, “Stringing Subtitles in Sign Language”, Proc. of the 8th International Conference on Technology for Education (T4E), IIT Bombay, Mumbai, Dec. 2-4, 2016.

- N. Akash, M. Sood and G. Srinivasa, “Automated Answer Scoring”, IEEE International Conference on Advanced Learning Technologies (ICALT), Mumbai, 9-13 July, 2018.

- H.V. Kumar, I. Nagaraj, M. Irfan, N. Maheshwari, P. Balasuri, R. Chatterjee and G. Srinivasa, “PESUBot: An empirical guided emotional chatbot”, Proc. NLP-2018, IEEE ICACCI, September 2018.

- M. S. Shushmitha, G. Srinivasa, “Pop-Paranoma of the Past: A Visual Summary of High School History”, IEEE International Conference on Technology for Education (T4E), Chennai, December 2018.

- V. N. Rao, S. Suresh, G. Srinivasa, “Gamification of a Visual Question Answer System”, Proc. IEEE International Conference on Technology for Education (T4E), Chennai, December 2018.

- Manish Shetty, Sourav Mary Alex, Merin John, Merin Fabià Edathachallil, Preetha Prasanna, Veena P. and Vidya P. Menon, “An Assessment Driven VSVR”, a Machine Learning/Information Mining 4Q Aspects”, Proc. of the Intl Conf. of the First Affiliated Hospital of Xinjiang Medical University, Oct. 31 - Nov. 4, 2019.

- R. P. Ramthala, S. Saha and G. Srinivasa, “Solving the N Queens and Golomb Ruler Problems Using DQN and Ant Colony Optimization: A Reinforcement

Approach”, Proc. of the 28th Intl. Conf. on Neural Information Processing (ICONIP) 2021, Bali, Indonesia, Dec. 8-12, 2021.

## Journals

- **D. Rajashekar, G. Srinivasa and A. Vinekar**, "Comprehensive Retinal Image Analysis For Aggressive Posterior Retinopathy Of Prematurity", *PLOS One*, 11 (10), e0163923, October 2016.

- **B. J. Sandesh, G. Srinivasa**, "Text-Mining based Localization of Player-Specific Events from a Game-Log of Cricket", *International Journal of Computer Applications in Technology*, vol. 55(3), 2017.

- **B. J. Sandesh, G. Srinivasa**, "A framework for the automated generation of paradigm adaptive summaries", *International Journal of Computer Applications in Technology*, vol. 55(4), pp. 276-288, August 2017.

- **Sandesh B. J., A. Anthony, G. Abhilasha, N. Shaik, G. Srinivasa**, "A Team Recommendation System and Outcome Prediction for the Game of Cricket", *Journal of Sports Analytics*, IOS Press, pp. 1-14, April 2018.

- **S. Shankar, I. Bhandari, D. T. Okou, G. Srinivasa, P. Athri**, "Predicting adverse drug reactions of two-drug combinations using structural and transcriptomic drug representations to train an artificial neural network", *Chemical Biology and Drug Design*, 97(3), pp. 665-673, 2021.

- **V. Murali, Y. M. Pradyumna, C. Konigs, M. Nair, S. Madhu, P. Nedungadi, G. Srinivasa, P. Athri**, "Predicting Clinical Trial Outcomes Using Drug Bioactivities through Graph Database Integration and Machine Learning", *Chemical Biology and Drug Design*, May 2022.

- **N. Suresh, N. C. A. Kumar, S. Subramanian, G. Srinivasa**, "Memory Augmented Recurrent Neural Networks For De-novo Drug Design", *PLOS One*, vol. 17(6), e0269461, June 2022.

## Others

- **Patent title**: Adaptive Multimodal Communication Assist System
  **US PTO - Application Number**: 13/330,712
  **Filed**: December 20, 2011
  **Granted**: July 29, 2014

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## Dr. Pooja Agarwal

Professor

Teaching

### Education

- **Doctor of Philosophy (Ph.D)**, Visvesvaraya Technological University, July 2018
- **M.Tech (Computer Science)**, Banasthali Vidyapith, Rajasthan, December 2001
- **M.Sc. (Theoretical Computer Science)**, Banasthali Vidyapith, Rajasthan, June 2000
- **Bachelor of Science**, CCS University, Meerut, May 1998

### Experience

- **Professor**, PES University, 2018 - Present
- **Associate Professor**, PESIT Bangalore South Campus, 2011 - 2018
- **Assistant Professor**, PES School of Engineering, EC Campus, 2008 - 2011
- **Assistant Professor**, TOCE, Bangalore, 2007 - 2008
- **Senior Lecturer**, TOCE, Bangalore, 2004 - 2007

- **Lecturer**, ABES Engineering College, Ghaziabad, 2002 - 2003

- **Intern and Software Engineer**, Harmonics Software Pvt Ltd., June 2001 - June 2002

**Additional Information**

Pooja Agarwal completed her Bachelor's degree in 1998 from CCS University, Meerut, and a Master's degree in Computer Science in 2001 from Banasthali Vidyapith, Rajasthan. She was awarded a PhD in Computer Science from Visvesvaraya Technological University in 2018, primarily focusing on the areas of machine learning and deep learning. Since July 2008, she has been associated with PES institutions, initially at PESIT Bangalore South Campus (now PES University - EC Campus). She has worked with over a hundred students on various projects at the undergraduate and master's levels in application areas such as data science, machine learning, soft computing, natural language processing, data analytics, and deep architectures. She has around 15+ publications in various reputed international conferences and journals.

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**Achievements**

- Member of IEEE

- Member of IAENG

- Chaired two sessions in the International Conference ICACCI at PESIT, Bangalore, in September 2018

- Chaired sessions in RETCOMP on 11-12 January 2013 at PESIT, Bangalore

- Chaired a session in RISE-2018 at PESIT, Bangalore

- Co-authored two books titled *Computer Oriented Numerical and Statistical Methods* and *Numerical Methods*

- Received an Appreciation Certificate for attaining 100% results for B.Tech and M.Tech classes multiple times

- Attended various workshops and international conferences

## Teaching

Handled Data Mining, Data Science, Machine Learning, Artificial Intelligence, Data Warehousing, Software Engineering, Theory of Computations, Formal Languages, Unix Shell Programming, unix System Programming, DAA, Data Structures for B.Tech and M.Tech students

**Responsibilities**

- **Professor** in the Department of Computer Science and Engineering (CSE)
- **Chairperson**, Anti-Sexual Harassment Committee (Internal Complaint Committee), EC Campus
- **Department Coordinator**, Internal Quality Assurance Cell (IQAC)
- **Faculty Adviser**, "Code Chef" coding chapter

**Research Interest**

- Machine Learning
- Deep Learning
- Natural Language Processing

**Conferences**

1. Prashant Agarwal, Ravi Kumar GVV, Pooja Agarwal, "IOT based Framework for Smart Campus: Covid-19 Readiness", IEEE, Fourth World Conference on Smart Trends in Systems, Security and Sustainability (WorldS4), London, UK, 2020, doi: 10.1109/WorldS450073.2020, pg 539-542.
2. Chinmayi Hegde, Suman Dash, Pooja Agarwal, "Vehicle Trajectory Prediction using GAN", IEEE Fourth International Conference on I-SMAC, Coimbatore, ISBN: 978-1-7281-5463-3, page 496-501, Nov 2020.
3. Nishita Vaddem, Pooja Agarwal, "Myers Briggs Personality Prediction using Machine Learning Techniques", International Journal of Computer Application (0975-8887), Vol. 175-No 23, ISBN: 973-93-80901-41-5, page 41-44, Oct 2020.
4. Monica S, Pooja Agarwal, Arti Arya, "Ransomware Detection Techniques in the Dawn of Artificial Intelligence: A Survey", 2020 5th International Conference on

Network Security, Tokyo, Japan, Dec 18-20, 2020.

5. B. Nidutt, Akshat Trivedi, Pooja Agarwal, "Automating Traffic Signals based on Traffic Density Estimation in Bangalore using YOLO", 4th International Conference on Information Systems and Computer Networks [Nov-2019], published in IEEE Xplore Digital Library in Feb 2020.

6. B. Reshma, Pooja Agarwal, DH Rohith Kumar, "Aviation Delay Estimation using Deep Learning", 4th International Conference on Information Systems and Computer Networks [Nov-2019], published in IEEE Xplore Digital Library in Feb 2020.

7. Sharma, Richa, Agarwal, Pooja et al., "A Naive Deep Nets Based Approach for Authenticating Viral Textual Content on Social Media." Proceedings of SAI Intelligent Systems Conference, Springer, Cham, 2018.

8. Pooja Agarwal, Abhijith Theo, Arti Arya, SuryaPrasad J., "Leveraging Different Machine Learning Rules in Hopfield Nets for Multiclass Classification", Accepted for presentation at IEEE Conference, Future Technologies Conference (FTC 2017), 29-30 Nov 2017, Vancouver, BC, Canada.

9. Varsha V, Arti Arya, Pooja Agarwal, Lakshmi S, Sanjay Balana, "Iterative Machine and Deep Learning Approach for Aviation Delay Prediction" at IEEE UPCON 2017, 26-28th Oct 2017, GLA University, Mathura.

10. Abin Martin Jones, Arti Arya, Pooja Agarwal, Purvasha G, Tejas A, "An Ontological Sub-Matrix Factorization based Approach for Cold-Start Issue in Recommender Systems" at IEEE Conference CTCEE-2017 in Mysuru, Sep 2017.

11. Arya A, Agarwal Pooja, "FDTACCT: Fuzzy Decision Tree Based Automatic Classifier for Customer Loyalty", Proc. of International Conference on Data Management 2010 (March 11-12, 2010), Ghaziabad.

**Journals**

1. Aravindhan V., Deepak Kumar, Pooja Agarwal, "Plant Disease Detection and Classification Using Deep Neural Networks", International Journal on Computer

Science and Engineering (IJCSE), e-ISSN: 0975-3397, Vol. 11, Aug 2019.

2. Agarwal, Pooja, Arya, A., Suryaprasad, J., Theophilus, A., "A Machine Learning-based Approach to Multiclass Classification of Customer Loyalty using Deep Nets", International Review on Computers and Software (IRECOS), 12(2), pp. 103-113, 2017.

3. Pooja Agarwal, Arti Arya, Suryaprasad J., "Comparative Study of Gaussian and Z-shaped Curve Membership Function for Fuzzy Classification Approach", Accepted in International Journal of Computer Sciences and Engineering (IJCSE), UGC approved, Aug 2017.

4. Pooja Agarwal, Abheejeet Singh et al., "Automated Essay Rater using Natural Language Processing", International Journal of Computer Applications, 163(10):44-46, April 2017.

5. Pooja Agarwal, Surya Prasad J. and Arya A., "A Naïve Hopfield Neural Network-based Approach for Multiclass Classification of Customer Loyalty", Communications on Applied Electronics 2(5):36-43, July 2015, Published by Foundation of Computer Science (FCS), NY, USA.

6. Arya A., Agarwal Pooja et al., "Automatic Fuzzy Classification Tool for Customer Loyalty using Gaussian Membership Function", Ciit Intl. J. of Data Mining and Knowledge Engineering (ISSN: 0974-9683), July 2010.

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**Dr. Prashanth Athri**

Professor

Teaching

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**Dr. Sarasvathi V**
Professor

**About**

Currently working as a Professor in the Department of Computer Science and Engineering at PES University, Dr. Sarasvathi V has completed her PhD at VIT University, Vellore, India. Her research interests include Wireless Ad-Hoc Networks, Sensor and Mesh Networks, Internet of Things (IoT), Cloud Computing, Network Optimization, and Performance Computing. She has authored nearly 30 research publications in reputed peer-reviewed international journals and conferences. Additionally, she has served as a Guest Editor for the Special Issue on "Emerging Trends, Applications, and Services in Communication Networks" for the *International Journal of Communication Networks and Distributed Systems* (Inderscience Journal) and as an Editor for IGI Global's *Handbook of Research on Applied Cybernetics and Systems Science*.

**Education**

- **Ph.D**, Vellore Institute of Technology, Vellore, 2016
- **M.E (CSE)**, Anna University, Chennai, 2009
- **B.E (CSE)**, Madurai Kamaraj University, Madurai, 2001

**Experience**

- **Professor**, PES University, 2022 - Present
- **Associate Professor**, PES University, 2020 - 2022
- **Associate Professor**, PESIT Bangalore South Campus, 2016 - 2020
- **Assistant Professor**, PESIT Bangalore South Campus, 2009 - 2016
- **Lecturer**, S.A. Engineering College, Chennai, 2006 - 2008

- **Lecturer**, Sree Sowdambika College of Engineering, Tamil Nadu, 2001 - 2004

- **Senior Lecturer**, New Horizon College of Engineering, 2009 - 2009

**Additional Information**

- **Academic Experience**: 19 Years

**Achievements**

- **Professional Membership**: IEEE Member, Women in Engineering Member

- **Judge**: IoTify-IEEE- Kalpana Tech Week 2020

- **Guest Editor**: *International Journal of Communication Networks and Distributed Systems* Special Issue on "Emerging Trends, Applications, and Services in Communication Networks"

- **Book Editor**: *Handbook of Research on Applied Cybernetics and Systems Science*

- **Session Chair**: 2018 International Conference on Advances in Computing, Communications, and Informatics (ICACCI), Track: ICACCI-14: Internet of Things (IoT)/Networks/Distributed Systems

- **Committee Member**: 2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI-2018)

- **Review Committee**: Kalpana 2018, Techno-Humanitarian event, Organized by the IEEE PESIT South Campus Student Branch; The Kludge 2018, 24-hour Event, A product-based design event organized by Electronics and Communication Department in PESIT-Bangalore South Campus

- **Technical Committee**: 4th National Conference on Recent Innovations in Science and Engineering (RISE-2018), organized by PESIT-Bangalore South Campus; 3rd National Conference on Recent Innovations in Science and Engineering (RISE-2017), organized by PESIT-Bangalore South Campus

- **Organizing Committee**: 1st National Conference on Recent Innovations in Science and Engineering (RISE-2015), organized by PESIT-Bangalore South Campus

- **Chairperson**: Constitution of Internal Complaints Committee (CICC) in VTU

- **Faculty Advisor**: Hacker Space Club, PESU EC Campus

**Teaching**

Computer Networks, Computer Network Security, Internet of Things (IoT), Information Security, Web Technologies, System Software, Research Methodology, Object-Oriented Programming, Data Structures, Multimedia Communication, High Performance Networks, Information Systems, Information Network Security, Data Communication, Advanced Computer Networks, Computer Graphics & Visualization, and Advanced Operating Systems.

**Responsibilities**

- M.Tech Coordinator

- Capstone Coordinator

- Test Coordinator

- Time Table Coordinator

- Class Coordinator

- Ph.D Advisor

- Ph.D Doctoral Committee Member

- Guiding 4 Ph.D Research Scholars

**Research Guidance**

Research Supervisor at VTU and PES University, currently guiding 4 Ph.D. students. Her research guidance covers topics such as the Internet of Things

(IoT), Wireless Sensor Networks, Mesh and Adhoc Networks, Cognitive Radio Networks, and Network and Information Security.

**Research Interest**

Her research interests include Cyber Security, Internet of Things, Wireless Sensor Networks, Applying Machine Learning Techniques in IoT and Security, Blockchain, Cloud Computing, Web Applications, Web Security, and Augmented and Virtual Reality.

**Books**

- Saha, S., A. Mandal, A. Narasimhamurthy, Sarasvathi V, and S. Sangam, *Handbook of Research on Applied Cybernetics and Systems Science*, IGI Global, 2017.

- Jain, Rishab, and V. Sarasvathi, "Profile Verification Using Blockchain." In *Applied Soft Computing and Communication Networks*, pp. 57-73. Springer, Singapore, 2021.

**Conferences**

- Sudha, Y., and Sarasvathi V. "Evolution of the Security Models in Cognitive Radio Networks: Challenges and Open Issues.", In *2020 International Conference on Innovation and Intelligence for Informatics, Computing and Technologies (3ICT)*, pp. 1-6. IEEE, December 20-21, 2020, Sakheer, Bahrain. (Indexed in Scopus)

- Yadav, Nikhil, and Sarasvathi V. "Venturing Crowdfunding using Smart Contracts in Blockchain", In *2020 Third International Conference on Smart Systems and Inventive Technology (ICSSIT)*, pp. 192-197. IEEE, August 20-22, 2020, Tirunelveli, India. (Indexed in Scopus)

- Nithin, M., S. Shraddha, Nishita Vaddem, and Sarasvathi V. "HyperIoT: Securing Transactions in IoT through Private Permissioned Blockchain." In *2020 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)*, pp. 1-6. IEEE, July 2-4, 2020,

Bangalore, India. (Indexed in Scopus)

- Prashant Verma, Kushal Agrawal, Sarasvathi V, "Indoor Navigation Using Augmented Reality", *2020 4th International Conference on Virtual and Augmented Reality Simulations (ICVARS 2020)*, February 14-16, 2020, Macquarie University, Sydney, Australia.

- Jeevan B Ravishankar, Sarasvathi V, T C Jermin Jeaunita, "Determination of Participating Nodes in Opportunistic Networks for VANET", *2019 IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS 2019)*, December 16-19, 2019, BITS Pilani, K K Birla Goa Campus, Goa. (Indexed in Scopus)

- T.C. Jermin Jeaunita, Sarasvathi V, Saritha, "Internet of Things Based Low-Cost Air Quality Surveillance", *WiSPNET2019: 2019 International Conference on Wireless Communications Signal Processing and Networking*, March 21-23, 2019, SSN College of Engineering, Chennai. (Indexed in Scopus)

- Jermin Jeaunita T C, Sarasvathi V, Harsha M S, Bhavani B M, Kavyashree T, "An Automated Greenhouse System using Agricultural Internet of Things for Better Crop Yield", *Smart City Symposium (SCS 2018)*, April 22-23, 2018, University of Bahrain, IET UK and Edge Hill University, Bahrain. (Indexed in Scopus)

- Meghajit Mazumdar, Sarasvathi V, Akshay Kumar, "Object Recognition in Videos by Sequential Frame Extraction using Convolutional Neural Networks and Fully Connected Neural Networks", *2017 IEEE International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS)*, Page No 1485-1488, Aug 1-2, 2017, SKR Engineering College, Chennai. (Indexed in Scopus)

- Sampath Shanmugam, Vaishak R Vellore, Sarasvathi V, "VRNav: A Framework for Navigation and Object Interaction in Virtual Reality worlds", *IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions*, Dec 2017, R V College of

Engineering, Bangalore. (Indexed in Scopus)

- S. Saritha and V. Sarasvathi, "A study on application layer protocols used in IoT", *2017 International Conference on Circuits, Controls, and Communications (CCUBE)*, 2017, Page No. 155-159, RNSIT, Bangalore.

- Sarasvathi V, N.Ch.S.N.Iyengar, "Centralized Rank Based Channel Assignment for Multi-Radio Multi-Channel Wireless Mesh Networks", *International Conference on C3IT-2012*, Procedia Technology, Page No. 182-186, Vol 4, Feb 2012. Hooghly, West Bengal. Proceedings published by Elsevier. (Available at sciencedirect.com). (Indexed in Scopus)

- Lobo, Pearl Alisha, and V. Sarasvathi. "Distributed File Storage Model using IPFS and Blockchain." In *2021 2nd Global Conference for Advancement in Technology (GCAT)*, pp. 1-6. IEEE, Bangalore, 2021. (Indexed in Scopus)

**Journals**

- Saritha, Sarasvathi V, Smrithi S, "Air Quality Monitoring and Predicting System for Sustainable Health Management using Multi-Linear Regression in IoT", *International Journal of Computing and Digital Systems*, page No: 419-431, Vol.9, Issue.3, 2020. (Indexed in Scopus)

- T C Jermin Jeaunita, Sarasvathi V, "Fault Tolerant Sensor Node Placement for IoT based Large Scale Automated Greenhouse System", *International Journal of Computing and Digital Systems*, page No: 189-197, Vol.8, Issue.2, 2019. (Indexed in Scopus)

- Pooja Balageri V, Sarasvathi V, "Smart Home Security - Intrusion Detection System Security for Home", *IJSRST*, Page No. 28-36, Volume 5, Issue 3, May 2018. Print ISSN: 2395-6011. Online ISSN: 2395-602X Themed Section: Science and Technology.

- Sarasvathi V, N. Ch. S. N. Iyengar, "A Multi Route Rank Based Routing Protocol for Industrial Wireless Mesh Sensor Networks", *Journal of Cybernetics and information technologies*, Page No.73-86, Vol.16, No.4,

2016, Print ISSN: 1311-9702; Online ISSN: 1314-4081. (Indexed in Scopus)

- Sarasvathi V, Snehanshu Saha, N.Ch.S.N. Iyengar, Mahalaxmi Koti, "Coefficient of Restitution based Cross Layer Interference Aware Routing Protocol in Wireless Mesh Networks", *International Journal of Communication Networks and Information Security (IJCNIS)*, Page No.177-186, Vol 7, No.3, 2015. (Indexed in Scopus)

- Sarasvathi V, N.Ch.S.N.Iyengar, Snehanshu Saha, "QoS Guaranteed Intelligent Routing using Hybrid PSO-GA in Wireless Mesh Networks", *Journal of Cybernetics and information technologies*, Page No.69-83, Vol.15, No.1, 2015, Print ISSN: 1311-9702; Online ISSN: 1314-4081. (Indexed in Scopus)

- Sarasvathi V, N.Ch.S.N.Iyengar, Snehanshu Saha, "An Efficient Interference Aware Partially Overlapping Channel Assignment and Routing in Wireless Mesh Networks", *International Journal of Communication Networks and Information Security (IJCNIS)*, Page No.52-61, Vol 6, No.1, April 2014. (Indexed in Scopus)

- Jeaunita, TC Jermin, and V. Sarasvathi. "A Multi-Agent Reinforcement Learning-Based Optimized Routing for QoS in IoT." *Journal of Cybernetics and Information Technologies*, page No: 45-61, Vol.21, No. 4, 2021. (Indexed in Scopus)

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**Animesh Giri**

Associate Professor

Teaching

## About

With 13 years of academic experience and an additional 2 years of industry expertise, Prof. Animesh brings a well-rounded perspective to the role of Computer Science Engineering faculty and Faculty Placement & Internship Coordinator. Extensive background in academia equips Prof. Animesh with a deep understanding of the educational needs and aspirations of students, allowing for the effective bridging of the gap between classroom learning and real-world application. The 2 years of industry experience provide valuable insights into the demands and expectations of the professional world, which Prof. Animesh leverages to prepare students for successful careers. As a Placement & Internship Coordinator, Prof. Animesh is dedicated to establishing strong industry partnerships, crafting meaningful internship opportunities, and providing students with the guidance and support needed to excel in their chosen fields. The commitment is to empower students with the skills and knowledge necessary for a seamless transition from academia to industry, ultimately contributing to their career success

## Education

- **M.Tech** - Computer Networks and Engineering, SJB Institute of Technology, Visvesvaraya Technological University, 2009-2011

- **Ph.D** - Pursuing, PESIT - Bangalore South Campus, Visvesvaraya Technological University, 2017 - Till date

- **B.E** - Information Science & Engineering, BLDEA's V P Dr PG Halakatti College of Engineering & Technology, Visvesvaraya Technological University, 2003-2007

## Experience

- **Software Developer**, Keane India Private Limited (NTT DATA), 2007 - 2009

- **Assistant Professor & Placement Coordinator**, PESIT - Bangalore South Campus, July 2011 - June 2020

- **Assistant Professor & Placement Coordinator**, PES University - Electronic City Campus, July 2020 - March 2023

- **Guest Faculty - Information Technology**, Vellore Institute of Technology, October 2015 - April 2021

- **Guest Faculty - Information Technology**, BITS - Pilani - WILP, July 2018 - Till date

- **Associate Professor & Placement Coordinator**, PES University - Electronic City Campus, April 2023 - Till date

**Additional Information**

- **Placement Office - PESU EC Campus**: 080-6618 6603

- **Mobile Number**: 9986265779

As the Faculty Placement Coordinator, my role is to bridge the gap between students and potential employers. I work closely with faculty, staff, and industry partners to identify internship and job opportunities that align with students' academic pursuits. My aim is to facilitate successful placements and prepare students for their professional careers. As the Faculty Internship Coordinator, I oversee and facilitate our internship program, aligning opportunities with students' academic objectives, collaborating with industry partners, and providing essential support to bridge the gap between education and career readiness.

**Teaching.**

Storage Area Networks, Computer Networks, Data Communications, Software Testing, Software Architectures, Cryptography & Network Security, Wireless & Mobile Computing, Advanced Computer Networks, Cloud Computing, Internet of Things (IoT), Big Data, 5G Mobile Networking, Software Defined Networks, Software Engineering, Blockchain, and Automotive Networking. These subjects

encompass various aspects of modern networking, data management, security, and emerging technologies, equipping students with the necessary skills and knowledge to excel in both theoretical and practical domains of the computing field.

**Responsibilities**

- **Placement Coordinator**
  As the Placement Coordinator, I facilitate the connection between students and potential employers, working closely with industry partners, faculty, and staff to create internship and job opportunities that align with students' academic pursuits. My primary goal is to ensure successful placements and prepare students for their professional careers.

- **Internship Coordinator**
  In my role as the Internship Coordinator, I manage and oversee the internship program, ensuring that the opportunities provided align with students' academic objectives. I collaborate with industry partners to offer meaningful and relevant internship experiences, bridging the gap between classroom learning and industry expectations.

**Research Interest**

- **IoT - Low Power and Lossy Networks**
  Focus on designing efficient communication protocols and architectures for IoT networks, particularly in low-power and lossy environments.

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**Research Projects**

- **Internet of Things - Routing**
  Research on developing robust and energy-efficient routing protocols for IoT networks to ensure seamless communication and data transfer in constrained environments.

- **Wireless Sensor Networks**
  Investigating new techniques for optimizing the performance and

scalability of wireless sensor networks, including energy management and data aggregation.

- **Wireless Communication**
  Exploring advanced wireless communication methods to improve network performance, throughput, and coverage, particularly in challenging and resource-constrained environments.

**Books**


1. Anurag, G., Akshay, C., Menon, A., Akshitha, N., Giri, A. (2024). *Predictive Analysis of Outages and Enhanced Network Optimization for Industrial IoT System*. In: Senjyu, T., So–In, C., Joshi, A. (eds) Smart Trends in Computing and Communications. SmartCom 2024 2024. Lecture Notes in Networks and Systems, vol 947. Springer, Singapore. https://doi.org/10.1007/978-981-97-1326-4_29

2. Singh, C., Sirdeshpande, M., Mohammed Haris, Giri, A. (2023). *Automating Audio Attack Vectors*. In: Ranganathan, G., Papakostas, G.A., Rocha, Á. (eds) Inventive Communication and Computational Technologies. ICICCT 2023. Lecture Notes in Networks and Systems, vol 757. Springer, Singapore. https://doi.org/10.1007/978-981-99-5166-6_15

3. Giri, A., Annapurna, D. (2021). *RPL-Based Hybrid Hierarchical Topologies for Scalable IoT Applications*. In: Suma, V., Bouhmala, N., Wang, H. (eds) Evolutionary Computing and Mobile Sustainable Networks. Lecture Notes on Data Engineering and Communications Technologies, vol 53. Springer, Singapore. https://doi.org/10.1007/978-981-15-5258-8_40

4. Detection of Hello Flooding Attacks on RPL in Internet of Things Networks Using Different Machine Learning Algorithms. Priyank Koul, Shevgoor Adithya Kamath, S. Akshatha, Nikita Ganvkar & Animesh Giri. Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 540)

5. Location Aided Secure Routing System in Ad-Hoc Networks. P. Sai Kishore Reddy, A. Hari Kishan Reddy, K. Vamshi Krishna Reddy, Lekha Suresh & Animesh Giri. Part of the Lecture Notes in Networks and

Systems book series (LNNS, volume 540)

6. Analysis and Rendering of Deauthentication Attack Using IoT Technology. Abhay Aggrawal, Isha Arora & Animesh Giri. Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 540)

7. Identifying and Predicting Sinkhole Attacks for Low-Power and Lossy IoT Networks. Animesh Giri, Abhishek Goyal, Arpit Kogta, Priyansh Jain & Pihoo Verma. Lecture Notes on Data Engineering and Communications Technologies book series (LNDECT, volume 171)

8. Secure and Efficient Routing Mechanism for Healthcare Networks. Animesh Giri, B. V. Balaji, Bhoomika P. Bhavimath, V. Durgalakshmi & B. Rahul. Lecture Notes on Data Engineering and Communications Technologies book series (LNDECT, volume 171)

**Conferences**

1. Animesh Giri, Deepthi R, Kavya V. "Performance Analysis of IPv4 & IPv6 across various operating systems", Proceedings of National Conference on Emerging Trends in Information Technology, NCETIT 2012 Don Bosco Institute of Technology, Bangalore. Awarded with Best Paper

2. Animesh Giri, Chaitra W M, Deepa V, "Location Capture of Incoming Calls in Mobile Devices", Proceedings of National Conference on Emerging Trends in Information Technology, NCETIT 2012 Don Bosco Institute of Technology, Bangalore.

3. Animesh Giri, Nisheeth Agarwal, Shashank, "Efficient Vehicular Routing using ACO Strategies", Proceedings of National Conference on Networking, Image Processing & Multimedia, NaCoNIM- 2012, K S Institute of Technology, Bangalore. Awarded with Best Paper

4. Animesh Giri, Nagabharan N, Aashish Goyal, "A Survey of Multimedia Cloud Computing Architecture, Applications & Approaches", Proceedings

of National Conference on Networking, Image Processing & Multimedia, NaCoNIM- 2012, K S Institute of Technology, Bangalore

5. A Sandur and A. Giri, "Performance Analysis of the merged 6L0WPAN-CoAP and RPL-CoAP with different combination of MAC and RDC layer protocols," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), Mysuru, India, 2022, pp. 1-6, doi: 10.1109/MysuruCon55714.2022.9972566.

6. A. Giri, J. Bhatia and K. K. Chandra, "Analysing the Performance of RPL Routing Protocol for Heterogeneous Traffic in Constrained Environments," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), Mysuru, India, 2022, pp. 1-7, doi: 10.1109/MysuruCon55714.2022.9972686.

**Journals**

1. Animesh Giri, Kumar Nityan Suman, Pragati, Kanaad Pathak, "Social Recruitment: A novel technique to hire the potential knowledge workers", *International Journal of Scientific & Engineering Research*, Volume 8, Issue 4, April, 2017 ISSN 2229-5518, Publication date 2017/4 Volume 8 Issue 4 Pages 1197 Publisher IJSER

2. Antra Raj Garg, Animesh Giri, Anushya Ashok, Manogna S, Chaitanya Lahari M, "AlertU-We Drive Safe! Do You?" Publication date 2017, *Journal International Journal of Science and Research (IJSR)*, Publisher ISSN (Online): 2319-7064

**Dr. Chandrashekhar P Chavan**

Associate Professor

Teaching

## About

Dr. Chandrashekhar P Chavan received his B.E. degree in Computer Science and Engineering from Guru Nanak Dev Engineering College, Bidar, Karnataka, India, and his M.Tech degree in Network and Internet Engineering from Sri Jayachamarajendra College of Engineering, Mysore, Karnataka, India, where he secured the 3rd rank in the university. He later earned his Ph.D. in the field of Wireless Networking from the Indian Institute of Science (IISc), Bangalore, India. His core research interests include Wireless Networks, Mobile Ad-Hoc Networks (MANETs), IoT, Artificial Intelligence and Machine Learning (AIML), Cloud Computing, Ubiquitous Networks, Network Security, Pervasive Computing, Context-Aware Systems, and Post-Quantum Cryptography.

## Education

Ph.D, Indian Institute of Science, Bangalore, 2021

M.Tech, Sri Jayachamarjendra College of Engineering, Mysore, 2008

B.E, Guru Nanak Dev Engineering College, Bidar, Karnataka, 2005

## Experience

Associate Professor, Dept of CSE, PES University, Bangalore, March 24, 2023 - Current

Visiting faculty, Wipro Technologies, WILP program in association with BITS, Pilani, 2019 - Current

Visiting Faculty, Wipro Technologies WISTA program in collaboration with the VIT, Vellore, 2014 - 2021

Assistant Professor, Sri Venkateshwara College of Engineering, Bangalore, 2009 - 2010

Software Engineer, Innovative Logic India Development Centre, Bangalore, Karnataka., 2007 - 2009

Assistant Professor, Sri Jayachamarajendra College of Engineering, Mysore, Karnataka, 2006 - 2007

Software Developer, Packet Motion India Development Center, 2007 - 2008

Assistant Professor, Nagarjuna College of Engineering and Technology, Bangalore, 2014 - 2018

Guest Faculty, Mindtree Technology Pvt Ltd in association with BITS Pilani, 2023 - Current

Visiting Faculty, Rajiv Gandhi Institute of Technology, Bangalore, 2011 - 2020

Assistant Professor, Dept of CSE, PES University, Bangalore, August 16, 2021 - March 24, 2023

Adjunct Faculty, I worked at TeamLease and HCL Technologies as an adjunct faculty member, 2023 - 2024

**Additional Information**

Professional Affiliations: Member of IEEE, IETE, ACM, and ISTE.

**Achievements**

I have been awarded University Third Rank holder in MTech by the VTU, Belgaum in 2008

Best Outgoing M.Tech Student Award from Sri Jayachamarajendra College of Engineering , Mysore (NAAC A) in 2008

Certificate of Excellence in 10th board by Bandhu Prakashan, Dharwad in 1997

Certificate of Excellence in 10th board by Vikram Prakashan, Dharwad in 1997

Third Rank in Karnataka State Level General Knowledge Competition conducted in the year 1997

Certificate for Excellence in Science State Level Talent Examination in 1995

Best Paper Award for our work "Malware Detection Using Ensemble Learning And File Monitoring" in IEEE ICSTSN 2023, 2nd International Conference on Smart Technologies and Systems for Next Generation Computing. Theme: Smart Technologies and Systems, 21st - 22nd April, 2023

Obtained an MHRD scholarship during my Ph.D. at IISc, Bangalore.

Appointed as an expert member for the IEEE International Conference ICTBIG-2024, Indore, India.

**Teaching:**

- Computer Networks
- Data Structure using C
- Operating System
- Design and Analysis of Algorithm
- Big Data
- Database Management System
- Algorithms for Information Retrieval
- C programming
- Python programming
- Research Methodology
- C++ Programming
- Go Programming Language

**Responsibilities:**

- Coordinator for the Heal-O-Code Hackathon
- Coordinator for Google Developer Student Club (GDSC)
- Coordinator for Codechef Club
- Coordinator for InGenius 11.0 Hackathon
- Coordinator for Parallax Club
- Head of all the clubs at PES University, EC Campus

**Research Guidance:**

I am currently guiding one of my Ph.D. research scholars, Gururaj P, who is an internal faculty member.

**Research Projects:**

"Connectionless Vending Machine Using Encrypted QR Code"
Chandrashekhar Pomu Chavan, Prajwala Talanki Ranganath, Guram Balaji, Bharath Basawaraj Reddy, Pradeep Rajanna Shetty Sathish, Rachana Bajegundi Ganesh, Roopashree Shreedhar, Sai Ganesh Boya, Sandhya Govindaraju, Shrinivas Venkatesh Kachwar.
Indian Patent Number: 556401, Application Number: 202441033531. Date Granted: 17 December 2024.

**Books:**

Deepa Shree C. V., Chandrashekhar Pomu Chavan. "Data-Efficient Training for Effective Paraphrase Retrieval Techniques Using Language Models to Identify Research Gaps." In *Computing and Machine Learning*, Springer International Conference on Computing and Machine Learning (CML 2024), March 29–30, 2024, Sikkim, India. eBook ISBN: 978-981-97-6588-1, Print ISBN: 978-981-97-6587-4. (Book Chapter)

**Conferences:**

- Chandrashekhar Pomu Chavan and Pallapa Venkataram. Designing a Routing Protocol for Ubiquitous Networks using ECA Scheme in Fifth

International Conference on Advances in Computing and Information Technology during 25-26, 2015 at Chennai, India.

- Chandrashekhar Pomu Chavan. Intelligent dynamic routing decisions in ubiquitous network. In IEEE 2022 7th International Conference for Convergence in Technology (I2CT), Pune, Maharashtra, India., 7-9 April 2022.

- Chandrashekhar Pomu Chavan, Srinivas Talabattula. Design and Development of Novel Routing Protocol for Ubiquitous Network. In IEEE 2022 7th International Conference for Convergence in Technology (I2CT), Pune, Maharashtra, India., 7-9 April 2022.

- Aratrika Ray, Akhil Khubchandan, Siddhartha Shenoy, Canute Rollin Cardoza, and Chandrashekhar Pomu Chavan. Smart emergency reporting system for animals. In IEEE 2022 7th International Conference for Convergence in Technology (I2CT), Pune, Maharashtra, India., 7-9 April 2022.

- A Spoorthi Alva, Amulya S Dinesh and Chandrashekhar Pomu Chavan, IoT for Enabling Smart environment system, IEEE SMARTGEN Conference, December 23-25, 2022.

- Vignesh L, Nishanth J C, Hari Prasad H R, Jayanth Kumar A, Chandrashekhar Pomu Chavan. Smart Farm Android Application Using IoT and Machine Learning, In IEEE 2023 8th International Conference for Convergence in Technology (I2CT), Pune, Maharashtra, India., 7-9 April 2023.

- Tilak Vignesh, Sowhith Reddy, Sonit kumar, Akshat Chourey, Chandrashekhar Pomu Chavan. Malware Detection Using Ensemble Learning And File Monitoring in IEEE ICSTSN 2023, 2nd International Conference on Smart Technologies and Systems for Next Generation Computing. Theme: Smart Technologies and Systems, 21st - 22nd April, 2023 (BEST PAPER AWARD).

- Anirudh Joshi and Chandrashekhar Pomu Chavan. An Automated Workflow For Deepfake Detection in 2023 IEEE Fifth International Conference on Advances in Electronics, Computers and Communications (ICAECC), Bangalore Conference Date: September -07 & 08, 2023.

- Sai Sahana R K, Anush P Upadya, Ashish P Upadya, Md Mushtaq, Chandrashekhar Pomu Chavan. A Novel IoT Based Railway Platform Safety. IEEE Second International Conference On Advances In Computational Intelligence and Communication (IEEE ICACIC 2023), 7th & 8th December 2023, Puducherry, India.

- Sai Sahana R K, Anush P Upadya, Ashish P Upadya, Md Mushtaq, Chandrashekhar Pomu Chavan. Railway Track Crack Detection Using IoT Model. 3rd IEEE International Conference on ICT in Business Industry & Government (IEEE-ICTBIG-2023), 8th-9th December, 2023, Indore (MP), India.

- Gowrav N, Dhanush V, Chandrashekhar Pomu Chavan. Weather Forecasting Web application. 4th IEEE International Conference on ICT in Business, Industry and Government (ICTBIG2024), 13-14 December 2024.

- Hannah Thankam Alex, Sarah Alex, Swathi C G, Chandrashekhar Pomu Chavan. A Secure method of transferring confidential documents by leveraging Zero Trust Principles and Blockchain Technology. Fourth IEEE International Conference on ICT in Business, Industry and Government (ICTBIG2024), 13-14 December 2024.

- Swetha Ranganathan, Shanmitha Karthikeyan, Chandrashekhar Pomu Chavan, Shanthala P T. Integrating Quantum Key Distribution (QKD) with Post-Quantum Cryptography (PQC): Combining the BB84 Protocol with Lattice-Based Cryptographic Techniques. 4th IEEE International Conference on ICT in Business, Industry and Government (ICTBIG2024), 13-14 December 2024.

- U. Bhargava, Y. Teresha, N. Koul and C. P. Chavan, "Overcoming the Challenges of Large Language Models: Introducing a Novel Proposition for Synthetic Data Validation," 2024 IEEE 7th International Conference on Big

Data and Artificial Intelligence (BDAI), Beijing, China, 2024, pp. 290-295, doi: 10.1109/BDAI62182.2024.10692968.

- Sourabh SH, Rakshita BR, Bharath R, Shreyas, Chandrashekhar Pomu Chavan. A Comprehensive IoT and ML Solution for Soldier Health and Situational Awareness System. Springer 4th International Conference-2024 on Data Science and Big Data Analytics, Indore, India.

- A. A. Kumar, M. V. Reddy, A. Agarwal, S. Vishwamitra and C. P. Chavan, "Transfer Learning for Classification of GPR B-scan Images from Clutter using Vision Transformer and VGG-16," 2024 Second International Conference on Data Science and Information System (ICDSIS), Hassan, India, 2024, pp. 1-6, doi: 10.1109/ICDSIS61070.2024.10594683.

**Journals:**

- Chandrashekhar Pomu Chavan and Pallapa Venkataram. Design and Implementation of Event-based Multicast AODV Routing Protocol for Ubiquitous Network. *Elsevier Journal*, Volume-14(2590-0056):100129, 2022. DOI: https://doi.org/10.1016/j.array.2022.100129

- Chandrashekhar Pomu Chavan, Feasible QoS Routing for Ubiquitous Network, *Springer Nature Wireless Personal Communication*, https://doi.org/10.1007/s11277-024-10997-5.

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**Dr. Charu Kathuria**
Associate Professor

**About**
I have completed my B.E. in Information Technology from Maharshi Dayanand University, Rohtak. I have completed my M.Tech in Information Technology from

Lingaya's University, Haryana. My PhD research work is focused on the Structure Analysis of Proteins using data mining, and I received my doctorate from Amity University, Noida, in 2022. My research interests include Data Mining, Data Analytics, and Machine Intelligence.

**Bio**

**Education**

- PhD in Computer Science, Amity University, Noida, 2022
- M.Tech in Information Technology, Lingaya's University, Haryana, 2013
- B.E. in Information Technology, Maharshi Dayanand University, Rohtak, 2010

**Experience**

- Assistant Professor, BSAITM, Faridabad, 2011 - 2021

**Teaching**

- Machine Learning
- Operating System
- Data Structures
- Computer Networks
- Computer Architecture and Organization
- Machine Intelligence

**Conferences**

- Kathuria, C., Mehrotra, D. and Misra, N.K., 2018. Predicting the protein structure using random forest approach. *Procedia Computer Science, 132*, pp.1654-1662 (Scopus).

- Kathuria, C., Mehrotra, D. and Misra, N.K., 2020. Implementing Deep learning Algorithm on Physicochemical Properties of Proteins. *Proceedings of SoCTA 2020, Volume 1*, Advances in Intelligent Systems and Computing (AISC) Springer, pp. 685-693.

**Journals**

- Kathuria, C., Datta, G. and Kaul, V., 2013. Context indexing in search engine using binary search tree. *International Journal on Computer Science and Engineering, 5(6)*, p.514.

- Kathuria, C., 2016. A Review on Enhancing the Security of the Link State Protocol in MANET Using Cryptography. *International Journal of Innovative Research in Computer and Communication Engineering (IJRCCE)*. ISSN (online): 2320-9801 ISSN (print) 2320-9798.

- Kathuria, C., Mehrotra, D. and Misra, N.K., 2020. Determining protein conformation using vibrational frequencies: an ensemble approach. *International Journal of Data Mining and Bioinformatics, 23(2)*, pp.142-159. Inderscience Publishers. (Scopus, SCI expanded).

- Kathuria, C., Mehrotra, D., & Misra, N.K., A novel Random Forest approach to predict Phase Transition. *International Journal of System Assurance Engineering and Management, Springer, 13(1)*, 2021. (Scopus).

- Kathuria, C., Mehrotra, D. and Misra, N.K., Predicting the Secondary Structure of Proteins: A Deep Learning Approach, *Current Proteomics*, Bentham Science. BMS-CP-2022-24. (SCI Indexed)

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**Dr. Clara Kanmani A**
Associate Professor

**About**

Dr. Clara Kanmani A completed her doctorate in Information and Computer Science from Visvesvaraya Technological University in 2018. She graduated in Computer Science and Engineering from Vellore Engineering College, Tamil Nadu, and completed her Master of Technology in the same stream from Dayananda Sagar College of Engineering, Bangalore. Currently, she is an Associate Professor in the Department of Computer Science and Engineering at PES University, Electronic City, Bengaluru.

Her research areas of interest include Cloud Computing, Semantic Web Technologies, Machine Learning, and Cyber Security. She has over 20 years of academic teaching experience. Her specialization includes Analysis and Design of Algorithms, Android Application Development, Object-Oriented Modeling and Design, Information and Network Security, Cyber Security, and Digital Forensics.

Dr. Clara Kanmani A is currently guiding projects for undergraduate and postgraduate students in various areas of computer science. She has published research papers in IEEE, Springer, Scopus indexed journals, and various international journals in the field of computer science. She serves as a reviewer for Scopus indexed journals, IEEE conference papers, and is a doctoral committee member for research scholars at VTU, Bangalore.

She is a member of the advisory committee of an IT company, ELPIS IT Solutions, Bangalore. Additionally, Dr. Kanmani conducts Cyber Security awareness programs at various schools in association with the Cyber Security Centre of Excellence, Indian Institute of Science, and the Department of IT, BT, Government of Karnataka.

**Bio**

**Education**

- Ph.D. in Computer Science and Engineering, Visveswaraya Technological University, Karnataka, 2019

- Master of Technology in Computer Science and Engineering, Dayananda Sagar College of Engineering, Visveswaraya Technological University,

Bangalore, 2009

- Master of Philosophy in Computer Science (M.Phil), Bharathidasan University, Tamil Nadu, 2007

- Bachelor of Engineering in Computer Science Engineering (BE), Vellore Engineering College, University of Madras, 1998

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**Dr. Gamini Joshi**
Associate Professor

**Teaching**

**Dr. Geetha D**
**Associate Professor**

**About**
Currently working as an Associate Professor in the Department of Computer Science and Engineering, PES University, EC Campus, Bangalore, Karnataka, India. She obtained her Ph.D. under the Faculty of Information and Communication Engineering from Anna University, Chennai, in 2017. With a total of 15+ years of experience, including teaching undergraduates, postgraduates, and research, her research areas of interest include Network Security in Wireless Networks, Wireless Sensor Networks, Adhoc Networks, the Internet of Things, and Data Science. She has published around 11 research articles in refereed journals and presented 16 papers at national and international conferences. Dr. Geetha has also organized workshops on various technical topics at the college level and delivered seminars and guest lectures. She has guided more than 45 batches at the UG level and over 10 projects at the PG level. She is a member of the Institution of Engineers (India) and ISTE.

## Education

- Ph.D., Anna University, Chennai, 2017
- M.E. (CSE), Anna University, Coimbatore, 2010
- B.E. (CSE), Madras University, Chennai, 1999

## Experience

- Associate Professor / CSE, PES University, EC Campus, Bangalore, Feb 2022 - Till Date
- Associate Professor / ISE, BNM Institute of Technology, Bangalore, Sep 2020 - Feb 2022
- Associate Professor / CSE, Adhiyamaan College of Engineering, Hosur, Tamil Nadu, June 2010 - March 2020
- Lecturer, Vivekanandha College of Arts & Sciences for Women, Namakkal, Tamil Nadu, Jun 2000 - Feb 2002
- Lecturer, Paavai Women Polytechnic, Namakkal, Tamil Nadu, Jun 1999 - May 2000

## Achievements

- Received funding assistance of Rs. 93,000/- for the successful conduction of an AICTE-ATAL online FDP on Big Data and Analytics during Sep 20–24, 2021.

## Teaching

- Compiler Design

- Object Oriented Analysis and Design with Java
- Computer Networks
- Database Technologies
- Database Management Systems
- Blockchain and its Applications
- Human Computer Interaction

**Responsibilities**

Associate Professor in the Department of CSE

**Research Interests**

- Network Security in Wireless Networks
- Wireless Sensor Networks
- Internet of Things
- Data Science
- Blockchain Technology

**Books**

- Published a book chapter titled *"Accumulative Genome Fuzzy Prospecting Estimation Comparative Genomic Data in Cloud Computing with Wireless Network and Pattern Recognition"*, Dipti Press (OPC) Pvt. Ltd., ISBN: 978-81-952585-3-6, May 2021.

**Conferences**

- Presented paper titled *"Application to suggest investments and trade in share market using Strategic Investment Algorithm and Robotic Process*

*Automation"* at the 3rd International Conference on Global Business Strategies for Sustainability (GLOBUSS 2021), organized by Amity University, Noida, Uttar Pradesh, from August 27-28, 2021.

- Presented paper titled *"Performance Analysis of a Cricketer by Data Visualization"* at the 2nd International Conference on Recent Innovation in Science, Engineering and Technology, organized by the Department of Electrical, Electronics and Communication Engineering, Invertis University, Bareilly, U.P., India, from 23-24 July, 2021.

- Presented paper on *"A Completely Distributed Blockchain Period Authentication Framework"* at the International Conference on Emerging Trends in Science, Engineering and Management ICETSEM-2021, organized by the International Journal of MC Square Scientific Research, Chennai, Tamil Nadu, India, from January 21 to 23, 2021.

- Presented paper on *"Jamming Attack Model and Detection of Transmissions in Vehicular Networks"* at the International Conference on Electrical, Electronics & Computer Science, Institute of Research and Journals in Association with International Institution for Science Technology Engineering and Management, Bengaluru, on January 20, 2019.

- Presented paper on *"Black Spot Alert on Mobile Phones of Travellers"* at the Indian Society for Technical Education Sponsored National Conference on Research and Development in Science, Engineering and Technology, ST. Annes College of Engineering and Technology, Chennai, held on 28th February 2019.

- Presented paper on *"Security Implementation in Cloud Computing using User Behavior Profiling and Decoy Technology"* at the International Conference on Future Technologies in Engineering by Science and Humanities, Sri Guru Institute of Technology, Coimbatore, held on 22nd February 2019.

- Presented paper on *"Human and Animal Movement Detection in Agricultural Fields"* at the International Conference on Future Technologies in Engineering by Science and Humanities, Sri Guru Institute of

Technology, Coimbatore, held on 22nd February 2019.

- Presented paper on *"Automatic Text Detection in Natural Images"* at the TEQIP-II Sponsored 3rd National Conference on Emerging Trends in Advanced Computing and Communication, organized by Department of CSE, Government College of Engineering, Bargur, held on 17th & 18th March 2016.

- Presented paper on *"Shorten Fragmentation for In-Line Deduplication Backup Storage via Exploiting Backup History"* at the TEQIP-II Sponsored 3rd National Conference on Emerging Trends in Advanced Computing and Communication, organized by Department of CSE, Government College of Engineering, Bargur, held on 17th & 18th March 2016.

- Presented paper on *"Enhancing QoS in Hybrid Wireless Networks Using QoD Routing Protocol"* at the TEQIP-II Sponsored 3rd National Conference on Emerging Trends in Advanced Computing and Communication, organized by Department of CSE, Government College of Engineering, Bargur, held on 17th & 18th March 2016.

- Presented paper on *"To Implement Secure Identity-Based Set-ibs and Set-iboos Schemes for Cluster-Based Wireless Sensor Networks"* at the 3rd International Conference on Recent Innovations in Science, Engineering and Management, Sri Venkateswara College of Engineering and Technology, Srikakulam, Andhra Pradesh, held on 27th February 2016.

- Presented paper on *"Location Update Suitable for Geographic Routing in MANETs"* at the 4th IEEE International Conference on Information Communication & Embedded Systems at S.A Engineering College, Chennai, held on 27th & 28th February 2014.

- Presented paper on *"Location Update for Highly Dynamic Adhoc Network"* at the 3rd International Science Congress in Karunya University, Coimbatore, held on 8th & 9th December 2013.

- Presented paper titled *"Automated Script Evaluation using Machine Learning and Natural Language Processing"* at IEEE 2nd International Conference for Innovation in Technology, 3–5 March 2023, DOI.

- Presented paper titled *"Visualising Chemistry Experiments Using NLP and Computer Graphics"* at IEEE 2nd International Conference for Innovation in Technology, 3–5 March 2023, DOI.

- Presented paper titled *"Artificial Intelligence and Advanced Technology based Bridge Safety Monitoring System"* at Sixth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC-2022), IEEE Xplore, Part Number: CFP22OSV-ART; ISBN: 978-1-6654-6941-8.

- Presented paper titled *"Framework for Improving the Accuracy of the Machine Learning Model in Predicting Future Values"* at 8th International Conference for Convergence in Technology (I2CT), organized by IEEE Bombay Section, during 7th to 9th April 2023.

**Journals**

- Geetha, D & Monisha, S P, *Human and Animal Movement Detection in Agricultural Fields*, SSRG International Journal of Computer Science and Engineering, ISSN 2348-8387, Volume 6 Issue 1, January 2019.

- G. Manikandan; D. Karunkuzhali; D. Geetha; V. Kavitha, *'Design of an IoT Approach for Security Surveillance System for Industrial Process Monitoring Using Raspberry-Pi'*, AIP Conference Proceedings 2519, 030024 (2022), DOI.

- S Bhavanisankari, Geetha D, V. Sasirekha, B. Bharathi, S. Nikkath Bushra, *'Methods of Using Artificial Intelligence to Detect the Boundaries of Melanoma'*, Open access e-Journal Cardiometry, Issue 26, ISSN 2304-7232, February 2023.

- H. Azath, J. Gokulraj, J. Surendiran, D. Geetha, T. R. Ganesh Babu, *'Security for health information by elliptical curve Diffie-Hellman and improve energy efficiency in WBAN'*, AIP Conference Proceedings, AIP

Publishing, Volume 2523, Issue 1, DOI, January 2023.

- D. Geetha, T. Sathiya, H. Azath, M. Ramkumar, T. R. Ganesh Babu, *'Hybrid data mining-based breast prediction of COVID-19'*, AIP Conference Proceedings, AIP Publishing, Volume 2523, Issue 1, DOI, January 2023.

- J. Gokulraj, H. Azath, D. Geetha, M. Ramkumar, T. R. Ganesh Babu, *'Diabetes Risk Prediction Model of Connected Organs Using Retinal Images'*, AIP Conference Proceedings, AIP Publishing, Volume 2523, Issue 1, DOI, January 2023.

- T. Sathiya, D. Geetha, J. Surendiran, H. Azath, T. R. Ganesh Babu, *'Data Mining Based Chronic Kidney Disease (CKID) Prediction'*, AIP Conference Proceedings, AIP Publishing, Volume 2523, Issue 1, DOI, January 2023.

- Prerana M S, Sagarika M Chavan, Ramit Bathula, Sreenath Saikumar, Dr. Geetha Dayalan, *'Eval - Automatic Evaluation of Answer Scripts using Deep Learning and Natural Language Processing'*, International Journal of Intelligent Systems and Applications in Engineering, Volume 11, No.1, 316–323, ISSN: 2147-6799, January 2023.

- Geetha, D & Manimegali, B, *'Location Updation for Energy Efficient Geographic Routing in MANET'*, International Journal of Research in Engineering and Technology, Volume 2, Issue 12, December 2013, p-ISSN: 2321-7308, e-ISSN: 2319-1163.

- Geetha, D & Sakthivel, S, *'MSK: Session Based User Centric Light Weight Key Management Scheme for Secure Data Access Control in Wireless Broadcast Networks'*, International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 10, Number 2 (2015), pp. 4663-4674.

- Geetha, D, *'A Survey on Secure Data Transmission Over Cluster-Based Wireless Sensor Networks'*, International Journal of Advance Research in Computer and Communication Engineering, ISSN 2319-5940, Volume 4, Issue 9, September 2015.

- Geetha, D, *'To Implement Secure Identity-Based Set-ibs and Set-iboos Schemes for Cluster-Based Wireless Sensor Networks'*, International Journal of Advance Research in Science and Engineering, ISSN 2319-8354, Volume 05, Issue S.I(01), February 2016.

- Geetha, D & Sakthivel, S, *'Service Orient Stream Cipher Based Key Management Scheme for Secure Data Access Control Using Elliptic Curve Cryptography in Wireless Broadcast Networks'*, American-Eurasian Journal of Scientific Research, ISSN 1818-6785, DOI: 10.5829/idosi.aejsr.2016.11.1.2282, Volume 11, No. 1, pp. 63-71.

- Geetha, D & Sakthivel, S, *'Securing Multi Key Cryptography Policy based Session Authorized Access in Wireless Broadcast Network'*, Asian Journal of Research in Social Sciences and Humanities, ISSN 2249-7315, DOI: 10.5958/2249-7315.2016.00951.5, Volume 6, Special Conference Issue, September 2016, pp. 130-141.

- Geetha, D & Divyashree, S P, *'Jamming Attack Model and Detection of Transmissions Using Cognitive Radio Network in Vehicular Network'*, International Journal of Innovative Science, Engineering & Technology, ISSN (Online) 2348-7968, Volume 6 Issue 5, May 2019.

- V Kavitha, D Geetha, D Karunkuzhali, and G Manikandan, *'A Completely Distributed Blockchain Period Authentication Framework'*, Journal of Physics-Conference Series, Volume 1964, ISSN: 1742-6588, E-ISSN: 1742-6596, July 2021.

- D Geetha, V Kavitha, G Manikandan, and D Karunkuzhali, *'Enhancement and Development of Next Generation Data Mining Photolithographic Mechanism'*, Journal of Physics-Conference Series, Volume 1964, ISSN: 1742-6588, E-ISSN: 1742-6596, July 2021.

- Harshitha G, Sreehari G, Mahesh Kumar S, Chinmai L, Dr. Geetha D, *'Performance Analysis of a Cricketer by Data Visualization'*, International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653, Volume 10 Issue I, January 2022.

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**Gokul Kannan Sadasivam**
**Associate Professor**
**Teaching**

## About

Works in the intersection of Network Security and Data Science, with thirteen plus years of experience in teaching/research/industry roles. Research skills/interests in network forensics, network attacks, IoT botnets, and data science. Published several papers in reputed conferences and journals. Good team player with excellent communication/interpersonal skills. Highly motivated to learn new enhancements in technology and a flair for creativity.

## Education

PhD (Computer Science and Engineering), BITS Pilani, 2021
M.Sc. (Computer Science), San Francisco Bay University, 2012
M.Sc. (Computer Engineering), National University of Singapore, 2007
B.E., College of Engineering Guindy, Anna University, 2004

## Experience

- **Associate Professor**, PES University, July 2022 - Till Date
- **Associate Professor**, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, April 2021 - July 2022
- **Guest Faculty**, Birla Institute of Technology & Science, Pilani (WILP, Bangalore Center), December 2020 - April 2021
- **Academic Advisor (volunteer)**, Alpha GK Matriculation School, April 2020

- **Assistant Professor**, Birla Institute of Technology & Science, Pilani, September 2012 - Dec. 2018

- **.NET Software Engineer**, Sopra Steria Asia Pte Ltd, January 2008 - December 2009

- **Systems Engineer**, Transit Link Pte Ltd, May 2007 - January 2008

**Teaching**

- Machine Intelligence

- Blockchain

- Computer Networks

- Statistics for Data Science (Mathematics for Computer Science and Engineering)

- Web Security (Special Topic)

- R Programming (Summer Course)

- UNIX Shell Programming (Special Topic)

- Compiler Design

- Mobile and Autonomous Robotics Systems

- Automata Formal Languages and Logic

- Computer Network Security

- Reinforcement Learning (Summer Course)

- Intrusion Detection and Prevention (Summer Course)

**Responsibilities**

- Class Coordinator
- Anchor - Mobile and Autonomous Robotics Systems

**Research Interest**

- Network Forensics
- Network Attacks
- IoT Botnets
- Data Science

**Conferences**

- Gokul Kannan Sadasivam and Chittaranjan Hota. "Efficient Detection of Malwares using Low-Interaction Honeypots". In: Intelligent systems, Computing and Information Technology (NCICIT), 2014 National Conference on. Anna University, Tiruchirappalli, India, 2014. Page 2 of 6
- Gokul Kannan Sadasivam and Chittaranjan Hota. "Scalable Honeypot Architecture for Identifying Malicious Network Activities". In: Emerging Information Technology and Engineering Solutions (EITES), 2015 International Conference on. Pune, India, 2015, pp. 27–31. doi: 10.1109/EITES.2015.15
- Gokul Kannan Sadasivam, Chittaranjan Hota, and Anand Bhojan. "Classification of SSH Attacks Using Machine Learning Algorithms". In: 2016 6th International Conference on IT Convergence and Security (ICITCS). Prague, The Czech Republic, 2016, pp. 1–6. doi:10.1109/ICITCS.2016.7740316
- Gokul Kannan Sadasivam, Chittaranjan Hota, and Anand Bhojan. "Honeynet Data Analysis and Distributed SSH Brute-Force Attacks". In: The International Conference Towards Extensible and Adaptable Methods in Computing, TEAMC 2018. 26-28 March. Netaji Subhas Institute of Technology, New Delhi, India, 2018. Link

- A Kavitha et al. "Diagnosing Musculoskeletal Disorders from Shoulder Radiographs Using Deep Learning Models". In: 2022 International Conference on Electronic Systems and Intelligent Computing (ICESIC). 22 April. Vel Tech Rangarajan Dr Sagunthala R and D Institute of Science and Technology, Chennai, India, 2022, pp. 85–90. doi: 10.1109/ICESIC53714.2022.9783501


**Journals**


- Gokul Kannan Sadasivam, Chittaranjan Hota, and Anand Bhojan. "Detection of Severe SSH Attacks Using Honeypot Servers and Machine Learning Techniques". In: Journal of Software Networking 2017.1 (Jan. 2017), pp. 79–100. doi: 10.13052/jsn2445-9739.2017.005. Link

- Gokul Kannan Sadasivam, Chittaranjan Hota, and Anand Bhojan. "Detection of stealthy single-source SSH password guessing attacks". In: Evolving Systems (2021). (SCIE, Scopus), pp. 1–15. doi: 10.1007/s12530-020- 09360-3. Link

- Vighnesh M S et al. "Attendance Automation Using Deep Learning". In: International Journal of Engineering Research & Technology (IJERT) 12.3 (2023). doi: 10.17577/IJERTV12IS030043. Link

- Manas et al. "Detection of SSH Password Guessing Attacks using Classification Algorithms". In: International Journal on Recent and Innovation Trends in Computing and Communication, doi: doi.org/10.17762/ijritcc.v11i9.9883. Link


**Others**


- Honeypot Challenges and Countermeasures, Symposium on Information Security, Hyderabad, 2013


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**Jeny Jijo**

*Associate Professor*

## Education

- M.E (CSE), Er. Perumal Manimekalai College of Engineering, Hosur, 2016
- Ph.D., Visvesvaraya Technological University (VTU)

## Experience

- **Assistant Professor**, PES University, 2012 - Present
- **Lecturer**, T John College, 2009 - 2012
- **Facility Operations**, Accenture, Bangalore, 2006 - 2007

## Teaching

- Mobile Applications
- Cloud Computing
- Advanced Web Programming
- Web Technology
- Object Oriented Using Java
- Object Oriented Using C++
- Data Structures

- Programming Using C
- Database Management Systems
- Management Information Systems
- Professional Ethics & Communication
- E-Commerce

**Responsibilities**

- Internship Coordinator - CSE
- Class Coordinator - CSE

**Research Interests**

- Cloud Computing
- Distributed Computing
- Cloud Security
- Federated Cloud Resource Provisioning Using ML Techniques
- Multi-Objective Evolutionary Algorithm for Dynamic Workflow Scheduling in Cloud Computing
- Internet of Things (IoT) and Cloud Computing for Healthcare

**Conferences**

- **T Chaitra, Shivani Agrawal, Jeny Varghese, Arti Arya**: Multi-Objective Optimization for Dynamic Resource Provisioning in a Multi-Cloud Environment using Lion Optimization Algorithm, 2020 IEEE 20th International Symposium on Computational Intelligence and Informatics

(CINTI), IEEE Xplore Database

- **Movie recommendation system using hybrid approach**, 7th International Conference on Inventive Communication and Computational Technologies (ICICCT - 2023) | 2023-05-23 | Conference paper | Supervision, Writing - review & editing | **Contributors: Jeny Jijo**

- **EVonWheels - an application offering services for electric vehicles**, International Conference on Recent Trends in Advanced Computing-2023 (ICRAC-2023) | 2023-05-03 | Conference paper | Supervision, Writing - review & editing | **Contributors: Jeny Jijo**

**Journals**

- **Jeny Varghese and Dr. S Jagannatha**: Task Scheduling and VM Allocation: A Detailed Cloud Survey, International Journal of Distributed and Cloud Computing, Volume 7 Issue 2, December 2019 (UGC approved)

- **Jeny Varghese and Dr. S Jagannatha**: Resource Provisioning Analysis in VMs Using Statistical Performance of Workloads for Business Applications, Journal of Computational and Theoretical Nanoscience, ISSN: 1546-1955 (Print), EISSN: 1546-1963, 2020 (Scopus Indexed Journal)

- **DALMIG**: Matching-Based Data Center Allocation and Dual Live VM Migration in Cluster-Based Federated Cloud, IETE Journal of Research | 2023-07-19 | DOI: 10.1080/03772063.2023.2228754 | Part of ISSN: 0377-2063, Part of ISSN: 0974-780X | **Contributors: Jeny Varghese, Jagannatha Sreenivasaiah**

- **Entropy Based Monotonic Task Scheduling and Dynamic Resource Mapping in Federated Cloud Environment**, International Journal of Intelligent Engineering and Systems | 2022-02-28 | DOI: 10.22266/ijies2022.0228.22 | Part of ISSN: 2185-3118

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**Dr. Kamatchi Priya L**
**Associate Professor**

## Education

- Ph.D., Anna University, 2018
- M.E., Thiagarajar College of Engineering, Madurai, 2007
- B.E., Sethu Institute of Technology, Enathi, 2005

## Experience

- Assistant System Engineer, Tata Consultancy Services, 2007 - 2009
- Sr. Assistant Professor, Vickram College of Engineering, 2009 - 2016
- Associate Professor, New Horizon College of Engineering, 2018 - 2020

## Teaching

- Data Structures
- Design and Analysis of Algorithms
- Programming in C
- Object Oriented Programming
- Machine Intelligence
- Object-oriented Analysis and Design

## Research Interest

- Disease Prediction
- Machine Learning
- Data Analytics

**Books**

- Aishwarya, Ravi, K. Pavitra, Primal Viola Miranda, K. Keerthana, and L. Kamatchi Priya. "Parkinson's Disease Prediction Using Machine Learning." In *Real-World Solutions for Diversity, Strategic Change, and Organizational Development: Perspectives in Healthcare, Education, Business, and Technology*, pp. 311-330. IGI Global, 2023.

**Conferences**

- Aishwarya, Ravi, K. Pavitra, Primal Viola Miranda, K. Keerthana, and Kamatchi Priya L, "Parkinson's Disease Prediction using Fisher Score based Recursive Feature Elimination." In *2023 International Conference on Advancement in Computation & Computer Technologies (InCACCT)*, pp. 1-8. IEEE, 2023.

- Adhikary, Sneha, S. M. Manasa, S. K. Shreesha, Shreya Bhat, and L. Kamatchi Priya. "Automatic Music Generation of Indian Classical Music based on Raga." In *2023 IEEE 8th International Conference for Convergence in Technology (I2CT)*, pp. 1-7. IEEE, 2023.

**Journals**

- Kamatchi Priya L (2020) "Missing Data Imputation methods for Autism Prediction", *International Journal of Recent Technology and Engineering*, 8 (5), 5580-5584.

- Kamatchi Priya L (2018), "Improvising Classification Performance for High Dimensional and Small Sample Data Sets", *Asian Journal of Information and Technology*, 17 (4), 261-270.

- Kamatchi Priya L (2018), "Data Analytics: Feature Extraction for Application with Small Sample in Classification Algorithms", *International of Business Informational Systems*, 26 (3), 378-401.

- Kamatchi Priya L, Dr. M.K. Kavitha Devi (2015), "Spending on Education Determinant of Economic Growth Using Structural Equation Modeling", *International Journal of Applied Engineering Research*, 10 (7), 17991-18005.

- Kamatchi Priya L, "Laplacian Fisher Clustering based Feature Subset Selection for Semi-supervised Data", *International Journal of Applied Engineering Research*, 10(75), 263-269.

- Kamatchi Priya L (2014), "A Review on Linear and Nonlinear Dimensionality Reduction Techniques: Seven Techniques for Dimensionality Reduction", *An International Journal of Machine Learning and Applications (MLAIJ)*, 1(1).

- Kamatchi Priya L (2014), "A Review on Linear and Nonlinear Dimensionality Reduction Techniques", *An International Journal of Machine Learning and Applications (MLAIJ)*, 1(1), 65-76.

- Mukhtar, Afzal, Hritika Rahul Mehta, S. Abirami, Sukeerthi Adi, and Kamatchi Priya L, "Mood-Based Music Recommendation for a Mall using Real-time Image", *Journal of Positive School Psychology*, 6, no. 3 (2022): 2975-2981.

**Dr. Kavitha P**

**Associate Professor**

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**Dr.Manju**

**Associate Professor**

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**Dr. Mannar Mannan**

**Associate Professor**

**Education**

- Ph.D., Anna University, Chennai, 2016
- M.Tech, Bharath Institute of Higher Education and Research, 2005

**Experience**

- Associate Professor, CMR Institute of Technology, 2021 - 2023
- Associate Professor, MVJ College of Engineering, 2018 - 2021

- Associate Professor, Karpagam College of Engineering, 2017 - 2018
- Assistant Professor, Anna University, Regional Campus, Coimbatore, 2009 - 2016

**Teaching**

- Database Management System
- Computer Networks
- File Structures
- Automata Theory and Computation
- Distributed System
- Mainframe Networking

**Research Interest**

Ontology and Information Retrieval, VANET, MANET, and Deep Learning, IoT

**Journals**

- **Designing a dynamic topology (DHT) for cluster head selection in mobile adhoc network**
  K. Sindhanaiselvan, J.M. Mannan, S.K. Aruna
  *Mobile Networks and Applications, 25, 576-584*

- **Security vulnerabilities and intelligent solutions for IoMT systems**
  J. Jeyavel, T. Parameswaran, J.M. Mannan, U. Hariharan
  *Internet of Medical Things: Remote Healthcare Systems and Applications, 175-194*

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**Dr. Monika Goyal**

**Associate Professor**

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**Dr. Nazmin Begum**

**Associate Professor**

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**Dr. Prajwala T R**
**Associate Professor**

**About**

B.E in Computer Science from Sri Siddhartha Institute of Technology, MTech in Software Engineering from PESIT (University Second Rank), and a PhD in Meteorological Data Analysis from VTU, Belgaum. My research focuses on Data Mining, Data Analytics, and Machine Intelligence.

**Education**

- B.E in Computer Science and Engineering, Sri Siddhartha Institute of Technology, Tumkur, 2011
- M.Tech in Software Engineering, PESIT, 2013

- Ph.D., VTU, 2023

**Experience**

- Assistant Professor, Department of Information Science and Engineering, CMRIT, Bangalore, 2014 - 2016

- Assistant Professor, Department of Computer Science and Engineering, PESIT, RR Campus, 2013 - 2014

- Assistant Professor, Department of Computer Science and Engineering, PESIT, EC Campus, 2018 - Present

- Associate Professor, PES University, 2022 - Present

**Achievements**

- Secured 2nd Rank for M.Tech in Software Engineering, PESIT

**Teaching**

- Compiler Design

- System Software

- Computer Architecture

- Operating System

- Digital Design and Computer Organization

- Soft and Evolutionary Computing

- Data Analytics

- Microprocessor and Computer Architecture

**Responsibilities**

- Department EMS Coordinator
- Mentor
- Class Teacher
- Alumni Coordinator for Department of CSE
- Curriculum Coordinator
- Capstone Coordinator

**Research Interest**

Data analytics and machine learning

**Conferences**

- A Survey Of Soft Computing Algorithms Using WEKA On Weather Data Set, 2018 Third International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT), 14-15 December 2018.
- Modeling and Forecasting of Rainfall using IoT sensors and Adaptive Boost Classifier for a Region, International Conference on IoT based Control Networks and Intelligent Systems (ICICNIS 2020).
- Note-ing Hill: A Note-Making Application, 2022 IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE).
- "Customer Purchase Intention Prediction Using Text Analytical Models", 2022 IEEE 7th International conference for Convergence in Technology (I2CT), Pune, India, Apr 07-09, 2022.
- "Automated Shopping Cart : Reducing Long Queues One Cart At A Time", 2023 3rd International Conference on Smart Data Intelligence (ICSMDI).
- "Twitter Sentiment Analysis for Bitcoin Price Prediction", 2023 3rd International Conference on Smart Data Intelligence (ICSMDI).

- "Predicting the Number of Fatalities in an Air Crash", 2023 IEEE 8th International Conference for Convergence in Technology (I2CT), Pune, India, Apr 7-9, 2023.
- Naveen, B.N., Mekala, S., Kumari, S. and Prajwala, T.R., 2024, January. Importance of Drug Features in Drug–Drug Interaction: A Comparative Study. In International Conference on Multi-Strategy Learning Environment (pp. 485-501). Singapore: Springer Nature Singapore. (https://doi.org/10.1007/978-981-97-1488-9_36)
- S. N. M, A. S. Kumar, T. S, D. P. Kumar and Prajwala TR, "Crop Combination And Market Prediction using ML methods," 2024 IEEE 9th International Conference for Convergence in Technology (I2CT), Pune, India, 2024, pp. 1-6, doi: 10.1109/I2CT61223.2024.10543457.
- A. B V, A. N. J, A. S. Gurikar, A. Joshi, A. Pandharkar and P. T R, "An xG Based Football Scouting System Using Machine Learning Techniques," 2024 IEEE 9th International Conference for Convergence in Technology (I2CT), Pune, India, 2024, pp. 1-3, doi: 10.1109/I2CT61223.2024.10544261.
- S. L. Medha, V. Rickvibhadhini, S. B and P. T R, "Unraveling the Complexity : A Comprehensive Analysis of PCOS," 2024 IEEE 9th International Conference for Convergence in Technology (I2CT), Pune, India, 2024, pp. 1-4, doi: 10.1109/I2CT61223.2024.10543283.
- S. V. Pujari, T. R, A. Jain, N. S and P. T R, "Smart Basket: An E-Commerce Recommendation System," 2024 IEEE 9th International Conference for Convergence in Technology (I2CT), Pune, India, 2024, pp. 1-6, doi: 10.1109/I2CT61223.2024.10543740.
- A. B V, A. N. J, A. S. Gurikar, A. Joshi, A. Pandharkar and P. T R, "An xG Based Football Scouting System Using Machine Learning Techniques," 2024 IEEE 9th International Conference for Convergence in Technology (I2CT), Pune, India, 2024, pp. 1-3, doi: 10.1109/I2CT61223.2024.10544261.

**Journals**

- Comparative Analysis of EM Clustering Algorithm and Density Based Clustering Algorithm Using WEKA tool, International Journal of Engineering Research and Development, Volume 9, Issue 8, January 2014, PP. 19-24.

- conceptualization of classification algorithms using Rattle tool; in proceedings of second international conference on emerging research in computing, information, communication and applications, ERCICA 2014 ELSEVIER publications, Volume 1, Page 506-512.
- A Study on Decision Tree and Random Forest Using R Tool, International Journal of Advanced Research in Computer and Communication Engineering, Vol. 4, Issue 1, January 2015.
- Meteorological Data Analysis using Artificial Neural Networks, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-2S, December 2019.
- Meteorological Data Analysis of Semi Arid Region Of Karnataka Using Relative Importance of Features and Adaptive Boosting [1] classifier, International Journal of Computer Techniques -? Volume 7 Issue 5, 2020.
- Non-parametric randomized tree classifier for detection of autism disorder in toddlers, International Journal of Research - GRANTHAALAYAH, 9(10), 205-210. doi: 10.29121/granthaalayah.v9.i10.2021.4341.
- "Helmet Violation and Number Plate Detection System", Grenze International Journal of Engineering and Technology, June 2023 Issue.

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**Dr. Prema R**

**Associate Professor**

**About**

Dr. Prema has completed her ME in Computer Science and Engineering from Bannari Amman Institute of Technology, Sathy, and PhD from Anna University, Chennai. Her areas of interest include Data Analytics, Machine learning, and Deep learning.

**Teaching Subjects:**

- Machine Learning
- Compiler Design
- Data Mining
- Data Structures

**Research Interest**

Machine Learning Deep Learning

**Journals:**

1. *Effect of Intuitionistic Fuzzy Normalization in Microarray Gene Selection*, **Turkish Journal of Electrical Engineering & Computer Sciences**, Vol. 26, No. 3, 2018.

2. *Identifying Autism Biomarkers from Microarray Data Using Intuitionistic Fuzzy Normalization and Feature Selection*, **Journal**, Vol. 24, No. 3, 2019.

3. *Minimum Redundancy Maximum Relevance with Mean Based Ranking for Biomarker Gene Selection in Autism*, **International Journal of Telemedicine and Clinical Practices**, Vol. 3, No. 2, 2019.

4. *Two-Level Maximum Relevance-Maximum Significance Feature Selection Algorithm for Microarray Gene Expression Data*, **Journal of Advanced Research in Dynamics and Control Systems**, Vol. 10, No. 5, 2018.

5. *Gene Selection Using Fuzzy Discretization and Rough Set Theory*, **Research Journal of Pharmacy and Technology**, Vol. 11, No. 10, 2019.

6. *Fuzzy Logic Based Normalization and Classifier for Gene Expression Data*, **Journal of Advanced Research in Dynamics and Control Systems**, Vol. 10, No. 7, 2018.

7. *Fuzzy Discretization and Rough Set Based Feature Selection for High-Dimensional Classification*, **Journal of Information and Computing**

**Science**, Vol. 13, No. 3, 2018.

8. *An Analysis on Security Threats in Cloud Computing*, **International Journal of Information and Computing Science**, Vol. 6, No. 3, 2019.

9. *Techniques for Handling Imbalanced Datasets Classification: A Review*, **International Journal of Scientific Research in Computer Science**, Vol. 8, No. 2, 2019.

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**Dr. Richa Sharma**

**Associate Professor**

**About**

Dr. Richa Sharma is currently an Associate Professor at PES University, Bangalore. She holds a Ph.D. in Computer Science & Engineering with a specialization in Natural Language Processing (NLP) and Machine Learning/Deep Learning (ML/DL). She has previously served as an Assistant Professor at PES University, T John College (Bangalore), and PCTE Group of Institutes (Ludhiana). She holds an M.Tech, as well as MCA and BCA degrees. With nine years of experience in teaching and training MCA, MBA, and B.E. students, Dr. Sharma is passionate about researching emerging technologies, teaching, and mentoring students to help them build strong skillsets. Her primary research interests include NLP, ML, DL, Generative AI, Large Language Models (LLMs), and Retrieval Augmented Generation (RAG). During her Ph.D., she conducted pioneering research in fake news detection, especially focused on the Hindi language. She has several publications in reputed national and international journals and conferences, and has mentored many student projects that resulted in scholarly publications, contributing significantly to the academic and research community.

**Education**

- **Ph.D. in Computer Science & Engineering (CSE)**
  *PES University, Bangalore* — **2024**

- **M.Tech in Computer Science & Engineering (CSE)**
  *Lovely Professional University, Phagwara, Jalandhar* — **2013**

- **Master of Computer Applications (MCA)**
  *PCTE Group of Institutes, Ludhiana* — **2009**

- **Bachelor of Computer Applications (BCA)**
  *PCTE Group of Institutes, Ludhiana* — **2006**

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**Dr. Saranya Rubini S**
**Associate Professor**

**About**

Dr. S. Saranya Rubini is currently working as an Associate Professor in the Department of Computer Science and Engineering at **PES University**. She brings with her **12 years of teaching experience** and **3 years of industry experience**. Her primary research interests lie in the areas of **Computer Vision** and **Deep Learning**. Over the years, she has contributed significantly to academia through numerous **research articles, patents, conference papers, journal publications**, and has also **authored book chapters**.

**Education**

- **Ph.D. in Computer Science and Engineering**
  *Anna University* — **2022**

- **M.E. in Computer Science and Engineering**
  *Anna University* — **2015**

- **B.E. in Computer Science and Engineering**
  *Anna University* — **2007**

**Experience**

- **Associate Professor**
  *PES University, Bangalore* — **2023 – Present**

- **Assistant Professor**
  *Coimbatore Institute of Technology, Coimbatore* — **2011 – 2023**

- **Assistant System Engineer**
  *Tata Consultancy Services, Bangalore* — **2008 – 2011**

**Teaching**

- **Undergraduate Course:**
  - *Problem Solving with C*
- **Postgraduate Course:**
  - *Computer Systems for Programmers*
- **Other Courses Taught:**
  - *Database Technologies*
  - *Database Management Systems*

- *Object Oriented Analysis and Design using Java*

**Responsibilities**

- Associated with the **Center for Data Science and Applied Machine Learning**

**Research Interests**

- Computer Vision
- Artificial Intelligence
- Machine Learning
- Data Science
- Generative A

**Books / Book Chapters**

- **S. Saranya Rubini** (2022), *"Behaviors of Modern Game Non-Playable Characters"*, Springer Series - Lecture Notes in Electrical Engineering, Vol. 977, pp. 343–352, March 2023. *(Scopus Indexed)*
- **S. Saranya Rubini**, M. Prabhavathy, R. Saveeth (2022), *"A novel approach for detecting online malware using LSTM-RNN and BRNN based RNN in cloud environment"*, Lecture Notes in Networks and Systems, Jan 2022. DOI: 10.1007/978-981-19-1122-4_1 *(Scopus Indexed)*
- **S. Saranya Rubini**, R. SaaiNithil, Dr. A. Kunthavai, Dr. Ashish Sharma (2019), *"Deep Convolutional Neural Network Based Diabetic Retinopathy Detection in Digital Fundus Images"*, Advances in Intelligent Systems and Computing – Springer, Jan 2019. *(Scopus Indexed)*

**Conferences**

- **S. Saranya Rubini**, K. Sathya, R. Saveeth, M. Prabhavathy, *"Evolutionary Discriminative Deep Belief Network based Diabetic Retinopathy Classification"*, ICSCSP 2023, Malla Reddy College of Engineering, Hyderabad.

- **S. Saranya Rubini** (2022), *"Behaviors of Modern Game Non-Playable Characters"*, ICCCES 2022, PPG Institute of Technology, Coimbatore.

- **S. Saranya Rubini**, M. Prabhavathy, R. Saveeth (2022), *"Online Malware Detection using LSTM-RNN and BRNN"*, FICR International Conference, IIS University, Jaipur.

- **S. Saranya Rubini**, R. SaaiNithil, Dr. A. Kunthavai, Dr. Ashish Sharma (2018), *"CNN Based Diabetic Retinopathy Detection"*, ICSCSP 2018, Malla Reddy College, Hyderabad.

- **S. Saranya Rubini**, Dr. A. Kunthavai, Dr. Ashish Sharma (2017), *"Optic Disc Segmentation using Hessian Matrix"*, International Conference on Data Science and Engineering, PSG College of Technology, Coimbatore.

- **S. Saranya Rubini**, A. Kunthavai (2015), *"Diabetic Retinopathy Detection Based on Eigen Values of the Hessian Matrix"*, International Conference, Coimbatore Institute of Technology.

**Journal Publications**

- **S. Saranya Rubini**, Dr. A. Kunthavai (2021), *"Genetic Optimized Stacked Auto Encoder Based Diabetic Retinopathy Classification"*, Journal of Multiple-Valued Logic and Soft Computing, 37(1-2), 191-206. *(Scopus Indexed)*

- **S. Saranya Rubini**, M. Prabhavathy, S. Uma Maheswari, R. Saveeth (2021), *"Hybrid ML Approach for Android Malware Detection"*, Journal of Multiple-Valued Logic and Soft Computing, 37(5-6), 553-571. *(Scopus*

*Indexed)*

- **S. Saranya Rubini**, L. Priyadharshini, K. Divaina, V. Pooja (2018), *"Automated Classification of Diabetic Retinopathy: Survey"*, Journal of Applied Science and Computations, 5(8), 522–528. *(UGC Approved)*

- **S. Saranya Rubini**, Dr. A. Kunthavai (2018), *"Blood Vessel Segmentation in Retinal Images using Otsu Thresholding"*, International Journal of Applied Evolutionary Computation (IJAEC), 9(4). *(UGC Approved)*

- **S. Saranya Rubini**, Dr. A. Kunthavai (2015), *"Diabetic Retinopathy Detection using Hessian Matrix"*, Procedia Computer Science (Elsevier), 47, 311–318. *(Scopus Indexed)*

- **S. Saranya Rubini**, K. Karunambiga, M. Sundarambal (2015), *"Jamming-Resistant Frequency Hopping in Cognitive Radio Networks"*, International Journal of Applied Engineering Research, 10(3), 5965–5970.

- **S. Palanisamy**, **S. Saranya Rubini**, **O. I. Khalaf** (2024), *"Multiobjective Hybrid Fractal Antennas Using Metaheuristic Framework for Wireless Applications"*, *Scientific Reports*, 14, 3288.

**Patents**

- *"An Internet of Things (IoT) Based Tracking System for Real-Time Health Conditions of ICU Patients"*, Indian Patent No. 201941050577.

- *"Automatic Summarization of Video Content into Text Transcripts Using LSTM-Based RNN"*, Indian Patent No. 202241063827 A.

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**Dr. Saritha**

**Associate Professor**

## About

Dr. Saritha is an Associate Professor in the Computer Science Department at PES-EC Campus in Bangalore, India. She obtained her undergraduate degree in Information Science and Engineering (2007) from VTU University, India, and her postgraduate degree in Computer Science and Engineering (2013) from the same university. Dr. Saritha completed her Ph.D. under the guidance of Dr. Sarasvathi V from VTU University, India. With 18 years of teaching experience, she has developed a strong expertise in her field and continues to contribute to academia.

## Education

- **B.E** in Information Science and Engineering, Canara Engineering College, Mangalore, Karnataka, 2007

- **M.Tech** in Computer Science and Engineering, N.M.A.M.I.T, Nitte, Karnataka, 2013

## Experience

- **Lecturer**, Shri Devi Institute of Technology, Kenjar, Mangalore, 2007 - 2009

- **Assistant Professor**, Sahyadri College of Engineering, Mangalore, Karnataka, 2009 - 2015

- **Assistant Professor**, PES University, 2015 - Present

## Teaching

- Cloud Computing
- Problem Solving with C
- Data Structures
- Unix System Programming
- Software Architecture
- Data Mining
- Python
- Operating System
- Java
- Object-Oriented Programming using C++

**Responsibilities**

- Class Coordinator
- Test Coordinator/ESA Coordinator
- PESU Coordinator
- Digital Content Coordinator

**Research Interests**

- Cloud Computing
- Internet of Things
- Machine Learning

**Conferences**

- S. Saritha, V. Sarasvathi, "A study on application layer protocols used in IoT", 2017 International Conference on Circuits, Controls, and Communications (CCUBE), IEEE

- TC Jermin Jeaunita, V. Sarasvathi, Saritha, "Internet of Things based Low-Cost Air Quality Surveillance", 2019 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET), IEEE

- Automated Helpline Service Using a Two-Tier Ensemble Framework, K. Sai Jatin, K. S. Sai ShriKrishnaa, Samyukta Shashidharan, Sathvik Bandloor, K. Saritha, Pages 77-96

- Storage Automation Using the Interplanetary File System and RFID for Authentication, Paul John, Anirudh Manoj, Prathik Arun, Shanoo Raghav, K. Saritha, Pages 683-696

- Analysis on Air Quality and its Effects on Agriculture, Saritha, Ritika Shetty, Manasa Devi, Akash Dhotre, Prema R Hanchinal, 2022 3rd International Conference for Emerging Technology (INCET)

- "Detection and Mitigation of Man-in-the-Middle attack in IoT through Alternate Routing", Saritha K, Sarasvathi V, Anvita Singh, Aparna, Hrithik Saxena, Shruthi S, 6th International Conference on Computing Methodologies and Communication 2022

- "Cross Domain FAQ Chatbot", Gurukiran Reddy, Angad Pal, Shravan Krishna, Rishi, Saritha, First International Conference on Advanced Computing Technologies and Applications (ICATA-22)

**Journals**

- Saritha, Pradeep Kanchan, "Energy efficient Management of virtual machines in cloud data centers using dynamic consolidation", IJAMTES,

Vol-2 Issue 8, May 2013

- Saritha, Rithesh, "Heightening the performance efficiency of virtual machines in cloud data centers using dynamic consolidation", IJERT, Vol.2, Issue 12, December 2013

- Saritha, "Secure Fuzzy keyword Search using an Advanced Technique over Encrypted Cloud Data", IJECS, Vol.3 Issue 3, March 2014

- Vandana U, Saritha, "AMPTES: an adaptive multitopology traffic engineering system based on network virtualization techniques", International Journal of Mechanical Engineering and Information Technology, Vol.3 Issue 3, March 2014

- Preethi, Saritha, "Detection of Multiple faces in the moving Video using Graph Matching and Clustering", International Conference on Intelligent Engineering Systems - 2IES held on 3rd March, 2014

- Saritha, V. Sarasvathi, Smruti, "Air Quality Monitoring and Predicting System for Sustainable Health Management using Multi-Linear Regression in IoT", International Journal of Computing and Digital Systems, 2020

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**Dr. Sharavana K.**

***Associate Professor***

**About**

Dr. Sharavana K. is an Associate Professor in the Department of Computer Science and Engineering (UG Studies) at P E S University, Bangalore. He earned his Bachelor's degree from Visvesvaraya Technological University (VTU) in 2004, a Master's degree from Sathyabama University, Chennai, in 2009, and

holds a Ph.D. in High-Performance Computing (HPC) in Cloud Computing from VTU. With over 18 years of teaching experience and one year of research experience, Dr. Sharavana has contributed extensively to various journals, and national and international conferences. As an educator, he has taught courses such as Cloud Computing, Information Security, Advanced Computer Networks for M.Tech, and Application Development using Python, Unix and Shell, System Programming, Computer Networks, Object-Oriented Programming with C++/Java, and Web Programming for B.Tech students. His research interests focus on High-Performance Computing in Cloud Computing, Building Frameworks for Virtual HPC Cloud Computing, Mobile Ad-Hoc Networks, IoT, and Data Science.

**Education**

- **Ph.D. in Computer Science and Engineering**, Visvesvaraya Technological University (VTU), RRC Belagavi, Karnataka, 2023

- **Master of Technology (M.Tech) in Information Technology**, Sathyabama University, Chennai, Tamil Nadu, 2009

- **Bachelor of Engineering (B.E.) in Computer Science and Engineering**, Ramaiah Institute of Technology, Bengaluru, Karnataka, 2004

**Experience**

- **Associate Professor**, Department of Computer Science and Engineering, PES University, Bangalore – August 8, 2024 to Present

- **Associate Professor**, Department of Information Science and Engineering, HKBK College of Engineering, Bangalore, 2016 - 2024

- **Deputed as Polytechnic Principal**, MVJ Group of Institutes, Bangalore, 2014 - 2016

- **Lecturer, Senior Lecturer, Assistant Professor, Associate Professor, and Assistant HoD**, Department of Computer Science and Engineering, 2004 - 2016

- **Software Engineer**, SONATA Software, 2004

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**Dr. Sudeepa Roy Dey**

**Associate Professor**

## About

I am a dedicated researcher and machine learning (ML) enthusiast with 15 years of experience in research, teaching, and mentoring in Artificial Intelligence (AI), Machine Learning, Data Mining, and Social Network Analysis. I have a proven track record of publishing in prestigious, high-impact journals and am skilled in developing innovative ML models and applying them to novel domains. My work focuses heavily on data visualization, predictive analytics, and statistical modeling. With a strong emphasis on machine learning algorithm development, optimization, and building classifiers for diverse applications, I have garnered a publication record with over 950 citations and an h-index of 6. I am passionate about advancing the field of AI through impactful research and its practical applications in various industries.

## Education

- **Ph.D., VTU, 2022**
- **M.Tech, Amity University, 2011 - 2013**
- **B.E., BPUT University, 1999 - 2003**
- **Ph.D., VTU (Registered), 2017 - Present**

## Experience

- **Assistant Professor, Padmanava College of Engineering, 2004 - 2009**
- **Assistant Professor, IITM, New Delhi, 2010 - 2014**
- **Assistant Professor, PESIT, 2015 - Present**
- **Associate Professor, PES, 2022 - Present**

## Teaching

- Machine Learning
- Data Mining
- Artificial Intelligence

## Responsibilities

- Manage various departmental coordinations.

## Research Interests

- Social Network Analysis
- Scientometrics
- Machine Learning

## Conferences

- A. R. Yarlapati, S. Roy Dey, and S. Saha, "Early Prediction of LBW Cases via Minimum Error Rate Classifier: A Statistical Machine Learning Approach," 2017 IEEE International Conference on Smart Computing (SMARTCOMP), 2017, pp. 1-6, doi: 10.1109/SMARTCOMP.2017.7947002.

- R. Reddy, Snehanshu Saha, S. Roy Dey, V. Raychoudhury, "Recruitment Boosted Epidemiological Model for Qualitative Study of Scholastic Influence Network," SIAM Conference on Mathematics of Data Science, May 2020, Cincinnati, USA.

**Journals**

- Genealogy Tree: Understanding Academic Lineage of Authors via Algorithmic and Visual Analysis, *Journal of Scientometric Research*, 2018, 7(2), 120-124. DOI: 10.5530/jscires.7.2.18

- Recruitment Boosted Epidemiological Model for Qualitative Study of Scholastic Influence Network, *Journal of Scientometric Research*, 2021, 10(1), 110-118. DOI: 10.5530/jscires.10.1.13

- Predicting the Direction of Stock Market Prices Using Tree-Based Classifiers, *The North American Journal of Economics and Finance*, DOI: 10.1016/j.najef.2018.06.013

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**Dr. Suja C M**

**Associate Professor**

**Education**

- PhD in Computer Science and Engineering, Sathyabama Institute of Science and Technology, 2023

- MS in Computer Science, George Mason University, USA, 2013

- MS in Information Systems, George Mason University, USA, 2010
- B Tech, Calicut University, 2006

**Experience**

- Assistant Professor, Sathyabama Institute of Science and Technology, 2017 - 2024
- Software Consultant, DDE Inc, California, USA, 2014 - 2017
- Adjunct Faculty, George Mason University, USA, 2013
- Graduate Research/Teaching Assistant, George Mason University, USA, 2009 - 2013

**Achievements**

- High Impact Publication Award, Sathyabama IST, 2023
- Best Paper Award, ICMS 2020 Conference
- Reviewer Recognition from Elsevier

**Teaching**

- Machine Learning
- Database Management Systems
- C Programming
- Python Programming
- Computer Graphics

**Research Interest**

- Machine Learning
- Quantum Machine Learning
- Deep Learning
- Generative AI

**Conferences**

- S. C. Mana, G. Kalaiarasi, Y. R, L. S. Helen, and R. Senthamil Selvi, "Application of Machine Learning in Healthcare: An Analysis," 2022 3rd International Conference on Electronics and Sustainable Communication Systems (ICESC), 2022, pp. 1611-1615.

- A. T. Joseph Kurien, S. A. Mathew, and S. C. Mana, "Development of PHP and MySQL based Digital Asset Management System for Secure Organizations," 2022 6th International Conference on Trends in Electronics and Informatics (ICOEI), 2022, pp. 1859-1863.

- L. Sujihelen, C. Senthilsingh, A. Christy, M. D. A. Praveena, M. S. Roobini, and S. C. Mana, "Energy Efficient Routing Approach for IoT Assisted Smart Devices in WSN," 2022 4th International Conference on Smart Systems and Inventive Technology (ICSSIT), 2022, pp. 44-48.

- Suja Cherukullapurath Mana, T. Sasipraba, “A Study on Various Semantic Metadata Standard to Improve Data Usability,” Proceedings of ICCIDS 2019, February 2019.

- C. M. Suja, M. Saipriya, K. Sangeeetha, “Identification Of Land Document Duplication And Black Money Transaction Using Big Data Analytics,” Proceedings of IEEE 5th International Conference on Science Technology Engineering and Mathematics ICONSTEM 2K 19, March 14-15, 2019.

- Mydam Venkata Swaroop, Palagiri Chaitanya Kumar Reddy, Suja Cherukullapurath Mana, “Automated Detection of Crowded Bike and Number Plate Recognition Using Principal Component Analysis Algorithm,” Proceedings of International Conference on Artificial Intelligence and

Machine Learning (IAIM 2019), April 3-5, 2019.

- Alexander Brodsky, Suja Cherukullapurath Mana, Mahmoud Awad, Nathan Egge, "A Decision Guided Advisor to Maximize ROI in Local Generation & Utility Contracts," Conference: Innovative Smart Grid Technologies – ISGT 2011, Anaheim, California, 2011.

**Journals**

- Mana, S.C., Rajesh, S., Governor, K. et al. "Revolutionizing neural network efficiency: introducing FPAC for filter pruning via attention consistency." *Neural Computing & Applications* (2023). (Q1 journal)

- Suja C. Mana, T. Sasipraba, “An Intelligent Deep Learning Enabled Marine Fish Species Detection and Classification Model,” *International Journal on Artificial Intelligence Tools*, 2022, 31(1), 2250017.

- Suja C. Mana, T. Sasipraba, “Automated Fish Detection and Tracking System Using Pre-Trained Mask R-CNN for Ecological Biodiversity,” *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, Vol. 31, No. Supp01, pp. 1-16 (2023) (Q3 journal).

- Governor, K., Ramanujam, P., Mana, S.C., Peruman, G., “Near duplicate detection of images with area and proposed pixel-based feature extraction,” *Concurrency and Computation: Practice and Experience*, 2023, 35(2) (Q2 journal).

- Reddy, Y.A., Kumar, Y.S., Sankari, M., Mana, S.C., “Dog Breed Identification using ResNet Model,” *International Journal on Recent and Innovation Trends in Computing and Communication*, 2023, 11(7 S), pp. 64–71.

- Suja C. Mana, T. Sasipraba, “Analysis on Applying the Capabilities of Deep Learning Based Method for Underwater Fish Species Classification,” *Lecture Notes in Networks and Systems*, 2022, 256, pp. 1–11.

- Mana, S.C., Keerthi Samhitha, B., Deepa, D., Vignesh, R., “Analysis on Application of Fog Computing in Industry 4.0 and Smart Cities,” *Lecture Notes in Networks and Systems*, 2022, 256, pp. 1–11.

- Selvi, M., Kalaiarasi, G., Mana, S.C., Yogitha, R., Padmavathy, R., "Energy and Security Aware Hybrid Optimal Cluster-based Routing in Wireless Sensor Network," *Wireless Personal Communications*, 2024 (Q2 journal).

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**Swati Pratap Jagdale**

**Associate professor**

**About**

Dr. Swati has completed B.E (Computer Science & Engineering) in 2005 from NMU, Maharashtra. She received M.Tech (Computer Science & Engineering) in 2012 and a Ph.D. in 2024 from VTU, Karnataka. She has 13+ years of experience in academics. She is working at PES University since 2014. Her areas of interest are Scientometrics, Data Science, and Machine Learning.

**Education**

B.E (CSE), North Maharashtra University, Maharashtra, 2005

M.Tech (CSE), VTU, Karnataka, 2014

P.hd, VTU, Karnataka, 2024

**Experience**

Lecturer, SSVPS BSD College of Engineering, Dhule, Maharashtra, 2005 - 2008

Lecturer, Alard College Of Engineering and Management, Pune., 2011 - 2012

Intern, Intel, Bengaluru, 2011 - 2012

Assistant Professor, PES University, 2014 - 2023

Associate Professor, PES University, 2024 - Till date

**Teaching**

- Automata Theory
- Compiler Design
- Database Management Systems
- Data Analytics
- Algorithms for Information Retrieval and Intelligence Web

**Responsibilities**

- Manage CoDMAV research center activities
- Oversee various departmental coordination tasks

**Research Interests**

- Scientometrics
- Data Science
- Social Network Analysis

**Books**

- *Scientometrics: A Study of Scientific Parameters and Metrics* (Book chapter), Handbook of Research on Applied Cybernetics and Systems Science, IGI Global.
- *Big Data Acquisition, Preparation, and Analysis Using Apache Software Foundation Tools* (Book chapter), CRC Press, Taylor and Francis.

**Conferences**

- *A Study of Revenue Cost Dynamics in Large Data Centers: A Factorial Design Approach*, ICC/ACM Conference.

- *Interpreting Breast Cancer Recurrence Prediction Models: Exploring Feature Importance with Explainable AI*, 2024 3rd International Conference on Artificial Intelligence For Internet of Things (AIIoT).

- *Audio Description of Videos Using Machine Learning*, 2024 IEEE 9th International Conference for Convergence in Technology (I2CT), 1-6.

- *Ingredients to Recipe: A YOLO-based Object Detector and Recommendation System via Clustering Approach*, 2023 Third International Conference on Artificial Intelligence and Smart Energy (ICAIS).

- *Object Detection and Video Analyser for the Visually Impaired*, 2023 Third International Conference on Artificial Intelligence and Smart Energy (ICAIS).

- *Non-parallel Denoised Voice Conversion Using Vector Quantisation*, 2021 4th International Conference on Recent Trends in Computer Science and Technology (ICRTCST).

- *Semantic Influence Score: Tracing Beautiful Minds Through Knowledge Diffusion and Derivative Works*, International Conference on Database and Expert Systems Applications, 106-115, 2021.

**Journals**

- *Use of NoSQL Database and Visualization Techniques to Analyze Massive Scholarly Article Data from Journals*, Journal of Scientometric Research (Wolters Kluwer).

- *Analyzing the Common Wisdom of Binarization Doctrine in Internationality Classification of Journals: A Machine Learning Approach*, Journal of Scientometric Research (Wolters Kluwer).

- *Epigraphiology: A Hybrid Approach for Measuring and Analyzing Influence Diffusion in Article Networks*, Journal of Scientometric Research 13 (2), 615-624, 2024.

- *NLRIS: Modeling and Analysis of Non-local Influence of Research Output of Institutions*, Journal of Scientometric Research 11 (1), 79-88, 2022.

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**Dr. Vaishali Shinde**

**Associate professor**

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**Vandana M Ladwani**

**Associate Professor**

**Education**

- MTech (CSE)

- PhD (Pursuing)

**Experience**

- Associate Professor, PES, 2023 - Present

- Assistant Professor, PES, 2011 - 2023
- Assistant Professor, SVPCE, 2009 - 2011
- Assistant Professor, PCE, 2007 - 2009
- Associate Professor, 2023 - Present

**Teaching**

- Data Structures
- Analysis of Algorithms
- Advanced Algorithms
- Machine Learning
- C Programming
- C# and .Net
- Digital Image Processing
- Advanced Data Structures

**Responsibilities**

- Class Coordinator
- Seminar Coordinator
- MTech Coordinator
- EMS Coordinator
- Project Coordinator

- ASD Coordinator
- Anchor Faculty for Data Structures
- Anchor Faculty for Design and Analysis of Algorithms

**Research Interest**

- Machine Learning
- Data Mining
- Pattern Recognition
- Natural Language Processing
- Signal Processing

**Others**

National Conference, 18 International Conference Publications,3 Journal Publication,1 Book Chapter

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**Dr. Vinodha K**

**Associate Professor**

**Education**

- Ph.D., VTU, Belagavi, 2018
- M.E. (CSE), Anna University, 2008

- B.E. (ECE), Madras University, 1998

**Experience**

- Lecturer, B.T.L. Institute of Technology, August 2007 - June 2010
- Assistant Professor, The Oxford College of Engineering, July 2010 - July 2019
- Assistant Professor, Alliance University, July 2019 - August 2020
- Associate Professor, New Horizon College of Engineering, August 2020 - August 2021
- Associate Professor, PES University, August 2021 - Present

**Research Interests**

- Computer Networks and Network Security
- Machine Learning

**Conferences**

- "Execution of smart electric vehicle charging station driven by RE technology," 2021 IEEE Mysore Sub Section International Conference (MysuruCon), 2021, pp. 70-73, doi: 10.1109/MysuruCon52639.2021.9641653
- "Implementation of Smart Electric Vehicle Charging Station Driven Using Experimental Investigation," 2021 2nd Global Conference for Advancement in Technology (GCAT), 2021, pp. 1-5, doi: 10.1109/GCAT52182.2021.9587788
- "Introducing novel service policies in designing protocol for congestion control mechanism," 2016 International Conference on Computer, Electrical & Communication Engineering (ICCECE), 2016, pp. 1-8, doi:

10.1109/ICCECE.2016.8009558

**Journals**

- "Hierarchical Routing Technique for Traffic Control in Future Internet Architecture," Int. J. Communication Networks and Distributed Systems, Vol. 20, No. 1, 2018, pp 110-127

- "Congestion Control using Cross Layer and Stochastic Approach in Distributed Networks," International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 8, No. 3, 2017, pp 192-200 (Indexed in Thomson Reuters)

- "A Reliability System for Filtering Malicious Information on Social Network," International Journal of Management, Technology And Engineering, Volume X, Issue I, 2020, Pg:204-212, ISSN NO: 2249-7455

- "Automatic Messaging System by Detecting Road Accidents for Vehicle Applications," Materials Today: Proceedings, 2021

- "An Efficient Traffic Regulation Mechanism for Distributed Networks," EURASIP Journal on Wireless Communication and Networking, Springer Open Access Journal, June 2015

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**Bharathy Vijayan**

**Associate Professor**

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**Deepti C**

**Associate Professor**

## Education

- **M.Tech**, Dayananda Sagar College of Engineering, Visvesvaraya Technological University, 2009

- **Bachelor of Engineering**, Visvesvaraya Technological University (VTU), 2004

## Experience

- **Lecturer (ECE)**, Shirdi Sai Engineering College, 2006 - 2007

- **Lecturer (CSE)**, CMR Institute of Technology, 2009 - 2010

- **Assistant Professor (CSE)**, Christ University Faculty of Engineering, 2010 - 2012

- **Assistant Professor (ISE)**, The Oxford College of Engineering, 2012 - 2014

- **Assistant Professor (ISE)**, PESIT Bangalore South Campus, 2014 - 2019

- **Assistant Professor (CSE)**, PES University EC Campus, 2019 - Till date

## Teaching Areas:

- Digital Design and Computer Organization

- Microprocessor and Computer Architecture
- Logic Design
- Electronic Circuits
- Internet of Things

**Additional Information**

- **Professional Membership**: CSI (Computer Society of India) - Life Member since 2013

**Achievements**

- Secured Distinction in all Subjects from Class 1 to 10
- Successfully completed the 12-week NPTEL course on *Introduction to the Internet of Things* conducted by IIT Kharagpur with a consolidated score of 66% (ELITE) in November 2019
- Successfully completed the 12-week NPTEL course on *Blockchain Architecture Design and Use Cases* conducted by IIT Kharagpur with a consolidated score of 42% in April 2019
- Completed the 30-hour Online Faculty Development Program on *Applied Machine Learning, AI and its Applications using Python* organized by EduXLabs in Association with E-Cell IIT Hyderabad from 1st June to 13th June 2021
- Completed the AICTE-ISTE sponsored one-week Online Refresher Programme on *Internet of Things (IoT) Application* organized by the Department of Computer Science, Abha Gaikwad-Patil College of Engineering, Nagpur from 2nd to 7th November 2020

**Research Interests**

- Computer Networks
- Internet of Things
- Wireless Sensor Networks

**Responsibilities:**

- ASD Coordinator
- Class Coordinator
- Anchor Faculty - Digital Design and Computer Organization
- Minor Course Coordinator

**Books:**

- Singh, P.R., Nazre Amarnath, T.K., Khurram, M., Tripathi, S., Chandrasekharan, D. (2023). “Restaurant Automation Through IoT and NLP Techniques” In: Joby, P.P., Balas, V.E., Palanisamy, R. (eds) IoT Based Control Networks and Intelligent Systems. Lecture Notes in Networks and Systems, vol 528. Springer, Singapore. DOI: 10.1007/978-981-19-5845-8_10

**Conferences:**

- Presented a paper on "An Insight into Identity-based Authentication Techniques for the Internet of Things Environment" at the *International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)* at Priyadarshini Engineering College, Vanniyambadi, Vellore District, Tamil Nadu on 28th January 2018.
- Presented a paper on "Identity and Access Management in Cloud: A Review of Current Trends" at the *International Conference on Emerging*

*Trends in Science & Technologies for Engineering Systems (ICETSTES-2018)* organized by S J C Institute of Technology, Chickballapur, Karnataka, on 10th & 11th January, 2018.

- Presented a paper on "An Analysis of the Current Challenges in Efficient Video Processing" at the *International Conference on Advances in Computing Logic, Sciences and Technology* 2016, Anantapur, A.P, on 11th March 2016.

- Presented a paper on "An Energy Efficient Source Authentication Method for False Data Filtering in WSN" at the *International Conference on Electrical Engineering and Computer Science* organized by IRNET on 17th April 2013.

- Presented a paper on "Design and Implementation of a Monitoring Interface using Bluetooth Ad hoc Networking" at the *National Level Paper Presentation Conference* at Satyabhama University, Chennai on 30th and 31st July 2010.

- Presented a paper on “Estimation of Community Water Consumption Using Multivariate Ensemble Approach” at the *2023 IEEE International Conference on Contemporary Computing and Communications (InC4)* organized by Christ University on April 21st, 2023.

- Presented a paper on “An IoTML-Based Food Freshness Detection System” at the *2023 2nd International Conference for Innovation in Technology (INOCON 2023)* organized by Sai Vidya Institute of Technology, Bengaluru on 3rd March 2023. The proceedings were included in IEEE Explore Digital Library on 19th April 2023.

- Presented a paper on “Restaurant Automation through IoT and NLP Techniques” at the *International Conference on IoT-Based Control Networks and Intelligent Systems (ICICNIS 2022)* (Online Mode) organized by REVA University, Bengaluru on 1st and 2nd July 2022.

- Presented a paper on “Eye-Typing - Vision-Based Human Activity Control” at the *IEEE International Conference on Distributed Computing Electrical*

*Circuits and Electronics (ICDCECE-2022)* (Online Mode) organized by Ballari Institute of Technology and Management, Ballari on 23rd and 24th April 2022.

**Journals:**

- Deepti C, Arjit Jindal, Prudhvi Reddy, Amrutha D, "A Consumer-Friendly Machine Learning-Based Mechanism to Recognize the Quality of Commercially Available Fruits," *International Journal of Engineering and Advanced Technology (IJEAT)*, Volume 9, Issue 3, February 2020.

- Abhishek Kumar, Sourab Das, Deepti C, "Wi-Fi Direct based Mobile Application for Early Response to Persons in Emergency Situations," *The SIJ Transactions on Computer Networks & Communication Engineering (CNCE)*, Volume: 4, Issue: 2, October 2016.

- Deepti C, Renuka Devi M.N, Madhavi G, "An Analysis of the Current Challenges in Efficient Video Processing," *International Journal of Scientific & Engineering Research*, Volume 7, Issue 3, March 2016.

- S. Rathod and Deepti C, "An Integrated Fast Reroute Approach for Routing Protection in IP Networks," *International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)*, Vol 2, Issue 5, pp. 4015-4020, May 2014.

- R. Shivanagu and Deepti C, "An Assessment of Security Mechanisms Against Reactive Jammer Attack in Wireless Sensor Networks," *International Journal of Foundations in Computer Science and Technology (IJFCST)*, Vol. 3, No. 3, pp. 31–40, May 2013.

- M. Syama and Deepti C, "An Evaluation of Energy Efficient Source Authentication Methods for False Data Filtering in WSN," *International Journal of Security, Privacy and Trust Management (IJSPTM)*, Vol. 2, No. 2, pp. 33–41, April 2013.

- Deepti C, "A Framework for Monitoring Interface for Local Area Networks via Personal Bluetooth Computing," *International Journal of Computer Applications (IJCA)*, Volume 63, No. 17, pp. 27–30, February 2013.

- Manasi Bhattacharyya, T.K. Thriveni, and C. Deepti, "Identity and Access Management in Cloud-A Review of Current Trends and Future Research Directions," *Journal of Advanced Research in Dynamical and Control Systems (JARDCS)*, Special Issue-1, 2018.

- M. Syama and Deepti C, "An Evaluation of Enroute Filtering Methods for False Data Injection Attacks in WSN," *International Journal of Engineering Research and Technology (IJERT)*, Vol. 2, Issue 4, pp. 345-350, April 2013.

- R. Shivanagu and Deepti C, "A Security Mechanism against Reactive Jammer Attack in Wireless Sensor Networks Using Trigger Identification Service," *International Journal of Security, Privacy and Trust Management (IJSPTM)*, Vol. 2, No. 2, pp. 43–54, April 2013.

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**Divya Ebenezer Nathaniel**

**Associate Professor**

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**Divyaprabha K N**

**Assistant Professor**

## About

A progressive and multitalented academician with over 17 years of teaching experience in various roles including Assistant Professor, Senior Lecturer, and Lecturer. Demonstrates strong practical knowledge and a passion for imparting quality education, particularly in the domain of Information Technology Engineering. Committed to simplifying complex IT concepts and helping students apply them effectively in their professional careers.

Currently serving as an **Assistant Professor** in the **Department of Computer Science and Engineering at PES University**, Bengaluru. She is pursuing her **Ph.D. in Computer Science and Engineering** at PES University.

She holds an **M.Tech in Computer Science and Engineering** from **Visvesvaraya Technological University (VTU)** and a **Bachelor's degree in Computer Science and Engineering** from **Mysore University**.

**Area of Research**: High Performance Computing on Homogeneous and Heterogeneous Platforms using Machine Learning and Deep Learning techniques.

## Education

- **Pursuing Ph.D.** in Computer Science and Engineering, PES University, Bengaluru (Since 2020)

- **Master of Technology** in Computer Science & Engineering, SJCIT, Chickkaballapur – VTU, 2010

- **Bachelor of Engineering** in Computer Science & Engineering, Vidya Vikas Institute of Engineering & Technology, Mysore University, 2001

## Experience

- **Assistant Professor**, PES University, Bengaluru – *15 Jan 2019 to Present*
- **Assistant Professor**, Sri Sairam College of Engineering, Bengaluru – *23 Aug 2017 to 04 Jan 2019*
- **Assistant Professor**, BNMIT, Bengaluru – *01 Jan 2017 to 31 May 2017*
- **Testing and Support**, Verizon, Atlanta, Georgia, USA – *01 Jan 2014 to 28 Dec 2014*
- **Assistant Professor**, Amrita School of Engineering, Bengaluru – *12 Dec 2007 to 12 Dec 2012*
- **Assistant Professor**, New Horizon College of Engineering, Bengaluru – *26 Aug 2002 to 04 Dec 2007*
- **Lecturer**, Sri Jayachamarajendra College of Engineering, Mysore – *17 Oct 2001 to 24 Aug 2002*

**Achievements**

- Completed **NPTEL Big Data Computing** course with **Gold Performance (Top 10%)**
- Completed **NPTEL Machine Learning** course with **Elite Performance**
- Completed **NPTEL Cryptography and Network Security** course with **Elite Performance**
- Completed **NPTEL Problem Solving Through Programming in C** course with **Elite Performance**
- **Bronze Medalist** in **State-level Karate Championship** – Gojukan Style

**Teaching**

Courses taught include:

- Problem Solving using C/C++
- Data Structures with C
- Logic Design
- Finite Automata and Formal Languages
- Analysis and Design of Algorithms
- Computer Networks – I & II
- System Software
- Compiler Design
- Cryptography and Network Security
- Big Data
- Machine Learning / Intelligence
- Deep Learning
- System Modelling and Simulation
- Operating System
- Management and Entrepreneurship

**Responsibilities**

Worked as coordinator for ISO and NBA-National Board of Accreditation.

Worked as department level coordination for NAAC-National Assessment and Accreditation Council

Question Paper Setter for VTU, Jain University, Amrita University, PES University

Project Coordinator, Faculty Advisor(Class Teacher), Mentor, Exam Coordinator.

Chief Mentor(Anchor) and Mentor (Co-anchor) of Compiler Design and Automata Theory

Anchor - UE19CS343- Topics in Deep Learning - Jan - May 2022 - PES University

**Research Interest**

**Areas of Interest**: High performance Computing on Homogeneous and Heterogeneous Platform using machine learning and deep learning techniques.

**Research Projects**

HPC - On Heterogenous Platform (CPU + GPU and extendable to other AI chips)

**Conferences**

- *Case for Dynamic Parallelization using Learning Techniques* - 2020 IEEE 9th International Conference on Communication Systems and Network Technologies (CSNT)

- Presented the paper titled *"REMOTE WEBCAM CONTROLLING SYSTEM USING RELIABLE, SECURE WIRELES MEDIA"* in the National level Conference on Recent trends in Electronics and Communication organized by New Horizon Engineering College on 28th Feb 2007 and won the cash prize of Rs 1000/-

- *Recommendation System using NLP and Collaborative Filtering*. In 2023 IEEE 8th International Conference for Convergence in Technology (I2CT) (pp. 1-4). IEEE.

- *Gameplay Automation* in 2023 International Conference on Artificial Intelligence and Applications (ICAIA) Alliance Technology Conference (ATCON-1). IEEE

- *Design and implementation of virtual tour guide app*. In 2022 International Conference on Advanced Computing Technologies and Applications (ICACTA) (pp. 1-6). IEEE.

- *Cricket Video Summarization Using Deep Learning*. In 2023 IEEE 8th International Conference for Convergence in Technology (I2CT) (pp. 1-6). IEEE.

**Journals**

- Presented the paper titled *"NIVARTAKA- a fryer Drone"*, International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) Vol 5, Issue 5, May 2018

- Presented the paper titled *"INFORMATION SHARING BY BLOCKCHAIN TECHNOLOGY FOR SUPPLY CHAIN MANAGEMENT"* in International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) Vol 4, Issue 6, May 2017

**Others**

- Presented the paper titled *"Challenges and Issues of Outcome based Education"* in the 20th state level Indian Society of Technical Convention (ISTE) organized by Dayananda Sagar College of Engineering on 9th Dec 2017

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**Gauri Sameer Rapate**

**Assistant Professor**

**Education**

- Ph.D (Pursuing) - CSE, VTU, 2016

- M.E - CSE, Anna University, 2010
- B.E - CSE, Nagpur University, 2005

**Experience**

- Assistant Professor, PES University, August 2021 - Till Date
- Assistant Professor, Vemana Institute of Technology, July 2011 - July 2021
- Lecturer, Vemana Institute of Technology, January 2008 - June 2009

**Teaching**

- Internet of Things
- Automata Formal Language and Language and Logic Course Information
- Compiler Design
- Java and J2EE
- Object Oriented Modelling and Design
- Web Technology

**Responsibilities**

- Class Teacher
- Mentor

**Research Interest**

- Internet of Things - Energy Optimization

**Conferences**

4. Gauri S Rapate, N C Naveen; Energy and Routing Efficiency in IoT: Proposal

for Combined Approach, 2018 International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques (ICEECCOT)

**Journals**

1. Gauri S. Rapate, Dr Naveen N C A Survey on Routing Protocols of Internet of Things, *International Journal of Innovative Research in Computer and Communication Engineering*, Volume 6 Issue 5, Pages 5892-5898, IJIRCCE

2. Gauri Sameer Rapate, Dr. Naveen N C, Energy Efficient QoS guaranteed Cross Layer Solution (EEQCL) for Mesh Backbone IoT Networks, *International Journal of Recent Technology and Engineering*, 2019 ISSN: 2277-3878, Volume 8 Issue-32, Blue Eyes Intelligence Engineering & Sciences Publication

3. Gauri Sameer Rapate, Dr. Naveen N C, Energy Aware and Efficient Routing by Load Distribution for IoT Devices, *Design Engineering*, Pg. No. 4664-4673, Issue 7, 2021

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**Lenish Pramiee**

**Assistant Professo**

**About**

Over 7 years of professional experience as Assistant Professor in the Department of Computer Science & Engineering. Handled various core curriculums like Machine Learning using Python, Big Data Analytics using Hadoop, Application Development using Python, Object-Oriented Programming concepts using Java, Database Management System using SQL queries, etc.

Possesses good communication, interpersonal skills, and team spirit. Ability to complete assigned courses/tasks within a limited time period and explain technical concepts and ideas in a clear and precise way.

**Education**

- M.Tech (Information Technology), Francis Xavier College of Engineering, 2010
- B.Tech (Information Technology), C.S.I Institute of Technology, 2008

**Experience**

- Assistant Professor, Gopalan College of Engineering, 2017 - 2020
- Assistant Professor, The Oxford College of Engineering, 2021 - 2024
- Assistant Professor, PES University, EC Campus, 2024 - Till date

**Achievements**

- Elite certificate - "Deep Learning" NPTEL-AICTE-IIT, Kharagpur
- Elite certificate - “Introduction to Machine Learning” NPTEL-AICTE-IIT, Kharagpur
- Elite certificate - “IoT Industrial Revolution 4.0” NPTEL-AICTE-IIT, Kharagpur
- Elite certificate - “Introduction to Python” NPTEL-IIT, Kharagpur

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**Nagalakshmi S R**

**Assistant Professor**

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**Neha Sharma**

**Assistant Professor**

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**Nivedita Kasturi**

**Assistant Professor**

**About**

Working as Assistant professor in department of CSE with experience of 4.8yr. Having 1.2 yr of Industry experience in .Net. Doing PhD at Kle technological University.

**Education**

Mtech in computer science and engineering, BVBCET Hubli, 2014

**Experience**

Assistant professor, Mitm Sindudurga, 2014 - 2015

Assistant professor, Kle DrMSSCET Belagavi, 2015 - 2017
Assistant professor, IIIT Dharwad, 2017 - 2018
Assistant professor, Pesit EC, 2018 - 2019

**Achievements**
Qualified Kset exam

**Teaching**

Python, OOP with Java, ERP, DBMS

**Responsibilities**

Handling classes for 6th semester students and guided VTU projects and capstone projects.

**Research Guidance**
Machine learning and social network analysis

**Research Interest**
Data analytics and social network analysis

**Conferences**
Goldina Ghosh, Nivedita Kasturi, "Expansion of Social Connectivity: a concept of Big Data Analysis and Genetic Algorithm Modeling," has been published in Information and Communication Technology (CICT), 2017 Conference on 3-5 Nov. 2017, DOI: 10.1109/INFOCOMTECH.2017.8340584, Publisher: IEEE

Praneetha Bose Kollipara, Goldina Ghosh, Nivedita Kasturi, "Selecting Project Team Members Through MBTI Method: An Investigation with Homophily and Behavioural Analysis," has been accepted and presented in Second International Conference on Advanced Computational and Communication Paradigms (ICACCP), 2019 on 25-28 Feb 2019

Nivedita Kasturi, S G Totad, Goldina Ghosh, Geeta R B (2021) "Feasibility Study of Software Engineering aspects of bigdata Analytics Applications" CIIR 2021.

**Journals**
"Survey: Designing Curriculum For Outcome Based Education" and have been accepted for publication with IJSRP Volume 7, Issue 3, March 2017 Edition. ISSN 2250-3153.

Nivedita Kasturi, S G Totad, "An Advanced Greedy Storage & Multi-Cloud Based Public Auditing Mechanism Integrating Data Risk Management," has been published in International Journal of Engineering Research & Technology (IJERT), Vol. 8 Issue 04, April-2019, ISSN: 2278-0181.

Goldina Ghosh, C Akki, Nivedita Kasturi "A PSO based investigation of research fields of researchers," has been published in Kybernetes, Vol. 49 No. 6, pp. 1767-1782. https://doi.org/10.1108/K-03-2019-0160

**Others**

"Context Aware Algorithms," technical paper, Osmosis, technical festival, Mind tree, Bangalore, Jan, 2011

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**Niveditha Reddy**

**Assistant Professor**

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**P Kokila**

**Assistant Professor**

## About

Currently working as an Assistant Professor, in the Department of Computer Science and Engineering, PES University, EC Campus, Bangalore, Karnataka, India. Pursuing Ph.D. in VTU. Having a total of 14 years of experience which includes teaching Undergraduates, Postgraduates along with Research. Research areas of interest include Image Processing, Deep Learning, Network Security, Internet of Things. Filed patent entitling Classification for Planting and Monitoring Using FCNN-based IoT Smart Agriculture System. Nearly 12 Research papers in reputed journals and presented more than 8 Research papers at National and International conferences. Organized many expert lectures, and workshops at the college level. Guided around 15 batches at the UG level and more than 5 projects at the PG level. Life member in ISTE (Indian Society for Technical Education). Acted as External DCS for the conduct of VTU Theory Examination at various Engineering colleges in Bangalore. Attained funds for the project "Smart Assistant for the visually impaired" under KSCST.

## Education

M.E, Anna University, Chennai, 2008
B.E, Anna University, Chennai, 2006

## Experience

Assistant Professor, PES University, Feb 2022 - Till Date
Assistant Professor, The Oxford College of Engineering, Bangalore, Jan 2014 - Jan 2022
Assistant Professor, Adhiyamaan College of Engineering, Hosur, June 2008 - Jan 2013

## Teaching

Machine Learning, Artificial Intelligence, Cloud Computing and its Applications, Data Mining and Data Warehousing, Operating Systems

Open Source Software, Python Programming Language, Java Programming, Object Oriented Programming, Web Technology and its Applications, Internet Programming, Object Oriented Modeling and Design

Computer Networks, Data Communications, Multimedia Communication, Cryptography and Network Security, Information & Network Security, Cybercrime & Forensic

System Modeling and Simulation, Software Engineering, System Software, Computer Organization, PC Hardware and Trouble Shooting

**Research Interest**

- Image Processing
- Artificial Intelligence
- Network Security
- Internet of Things

**Others**

https://vidwan.inflibnet.ac.in/myprofile

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**Pavithra S**

**Assistant Professor**

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**Pranjali Swapnil Thakre**

**Assistant Professor**

## About

Pursuing PhD from Mukesh Patel School of technology Narses Monjee Institute (NMIMS) Deemed to be University Mumbai. Research Fellow at St John's Hospital Bengaluru.

## Education

M.E. Embedded System & Computing, Nagpur University, 2012
B.E. Computer Technology, Nagpur University, 2010

## Experience

Assistant Professor (Approved by UGC), South Indian Education Society Graduate School of Technology, Navi Mumbai, 2017 - 2021
Assistant Professor (Approved by UGC), Dwarkadas J. Sanghvi College of Engineering, Mumbai, 2013 - 2017
Lecturer, Rajiv Gandhi College of Engineering (formerly known as N.Y.S.S.) Nagpur, 2011 - 2012

## Achievements

- Elite Certification in “Introduction to Machine Learning” NPTEL IIT Madras in May 2023

- Elite Certification in “Deep Learning” NPTEL IIT Roopar in May 2023

- Coursera Specialization Certificate in “AI for Medicine” which consists of three courses: “AI for Medical Diagnosis”, “AI for Medical Prognosis”, and “AI for Medical Treatment” in July 2021

- Certification FDP on "Artificial Intelligence and Machine Learning" by Finland lab by IIT Roorkee from 28/5/20 to 6/6/20

- Elite certificate in "Joy of computing using Python" NPTEL in March 2019

- Completed "Pedagogy for Online and Blended Teaching-Learning Process(FDP 201X)" by IIT Bombay from 3 August 2017 to 12 October 2017

- Certification in “Embedded systems” from UTL Tech company group Bangalore from Aug 2008 to Jan 2009

**Teaching**

- Python

- Reinforcement Learning

**Research Interest**

- Artificial Intelligence

- Machine Learning

- Deep Learning

- Computational Neuroscience

**Conferences**

- Parmar, H., Shekokar, N., Thakre, P. (2020). A Novel Design for Voice-Enabled Home Automation and Personalized Recommendation System. In: Vasudevan, H., Michalas, A., Shekokar, N., Narvekar, M. (eds) *Advanced Computing Technologies and Applications. Algorithms for Intelligent Systems*. Springer, Singapore. https://doi.org/10.1007/978-981-15-3242-9_65

**Journals**

- Kristal Joanne D’souza, Ann Kurian, Andre Aditya Roy, Arshan Lawrence Rodrigues, Pranjali Thakre "Speech Emotion Recognition Through Federated Learning for Quality Assurance in Call Centers" *International Journal of Advance Computational Engineering and Networking (IJACEN)*-IJACEN Volume-12, Issue-2 (Feb, 2024)

IJACEN-IRAJ-DOIONLINE-20546

- A. Bhatt, V. Dave, Y. Panchamia, and P. Thakre, "Analyzing behavioral attributes of drivers and implementing safe driving model," 2017 IEEE International Conference on Vehicular Electronics and Safety (ICVES), Vienna, Austria, 2017, pp. 228-232, doi: 10.1109/ICVES.2017.7991930.

**Others**

- 2nd National Conference on Information and Communication Technology (NCICT) 2011 Proceedings published in *International Journal of Computer Applications® (IJCA)* "Design Approach of Projector Interface Device using ARM" Pranjali Khiratkar & Prof. P.P.Rane

- A. Bhatt, V. Dave, Y. Panchamia, and P. Thakre, "Analyzing behavioral attributes of drivers and implementing safe driving model," 2017 IEEE International Conference on Vehicular Electronics and Safety (ICVES), Vienna, Austria, 2017, pp. 228-232, IEEE Digital Xplorer doi: 10.1109/ICVES.2017.7991930.

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**Dr. R Nandhi Kesavan**

**Assistant Professor**

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**Rohith Vaidya K**

**Assistant Professor**

## Education

- M.Tech in Computer Network Engineering, Visvesvaraya Technological University (VTU), Year - 2015

- B.E in Information Science and Engineering, Visvesvaraya Technological University (VTU), Year - 2013

## Experience

- Having 4+ years of teaching experience from reputed institutions, VTU, 2016 - 2021

## Teaching

- Having 4+ years of teaching experience from reputed institutions.

## Responsibilities

- Teaching Computer Science courses and guiding students in their projects.

- Worked at various capacities at the department level, including:

    - NBA Coordinator

    - NAAC Coordinator

    - LIC Coordinator

    - ISO Coordinator

    - Timetable Coordinator

- Test Coordinator
- Faculty Advisor and Mentor
- Class Coordinator
- Lab In Charge
- Counselor
- Newsletter In Charge

**Published Papers**

- *Industrial Pollution Monitoring and Controlling System* in IFERP, Vol. 6, Issue 5, May 2019.

**Conferences**

- Presented and published a paper entitled *Securing Content-Based Publish/Subscribe System by Adapting Pairing-Based Cryptography Mechanism* in the International Journal of Engineering Research (IJOER), Vol. 3, Issue 2, April 2015, at the International Conference on Current Innovations in Engineering and Technology, held at Chennai.

**Journals**

- Published a paper entitled *Performance Analysis of UHF, RFID Security and Efficiency using NS2* in IJARTET, Vol. 5, Special Issue 14, April 2018.

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**Ruby Dinakar J**

**Assistant Professor**

## Education

- M.E, Anna University, 2005
- B.E, M.S University, 2000

## Experience

- Assistant Professor, Vemana Institute of Technology, June 2008 - August 2021
- Lecturer, SRM University, June 2005 - December 2007
- Programmer, E-Seva Pvt Ltd, June 2000 - January 2003
- Assistant Professor, PES University EC campus, August 2021 - Till date

## Achievements

- Patent: *A System For Streaming And Storing The Heterogeneous Streamed Sensor Data Using Microservices Architecture Model*

## Teaching

- Software Engineering
- Advanced Java Programming
- Data Visualization with Tableau
- Python for Computational Problem Solving
- Object Oriented Analysis and Design with Java

- Database Technologies
- Database Management System
- Big Data
- Problem Solving using C

**Research Interest**

- Big Data
- Data Analytics, Database, Data Mining
- IoT

**Research Projects**

- Storage mechanism for heterogeneous streamed sensor data using Big Data paradigm and analyzing it with efficient machine learning algorithms.

**Books**

- *Storage Mechanism for Heterogeneous Streamed Sensor Data*. Inventive Communication and Computational Technologies, Springer, 2022

**Conferences**

- A study on storage mechanism for heterogeneous sensor data on big data paradigm - 2017 International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques (ICEECCOT)
- "HSEPM: Home Security and Efficient Power Management," 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 2018, pp. 1076-1082, doi: 10.1109/RTEICT42901.2018.9012650

- Preservation of integrity and security in range queries and providing security using digital signature in WSN's, International Journal on Innovative Research in Computer and Communication Engineering, May 2015, Vol.3, Special Issue 5

- Smart Library System with Enhanced Security using RFID Technology, International Journal of Recent Trends in Engineering & Technology, June 2018, 978-81-937041-8-9

**Journals**

- *Pollution Monitoring System Based on IoT*, International Research Journal of Computer Science (IRJCS), Issue 06, Volume 6 (June 2019)

- *IoT Based Home Security System using Raspberry Pi*, IJIRCCE May 2018, Vol. 6, Issue 5

- *Real-Time Streaming Analytics using Big Data Paradigm and Predictive Modelling based on Deep Learning*, International Journal on Recent and Innovation Trends in Computing and Communication, March 2023, Volume 11, Issue 4s, pp. 161-165.

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**Sheela Devi M**

**Assistant Professor**

**About**

Assistant Professor in the Department of Computer Science & Engineering at PES University. Having 12 years of Teaching Experience in the domains such as

Computer Networks, Network Security, Adhoc networks etc. Completed Post graduation in the Department of Computer Science & Engineering under Anna University, Chennai. Authored a book on Data Mining and Warehousing, a patent, and more than 15 papers in various Journals such as IEEE, Scopus etc. Lifetime member of CSI and ISTE.

**Education**

- Bachelor of Engineering - CSE, Sudharsan Engineering College, 2000-2004
- Master of Engineering - CSE, Adhiyamaan Engineering College, 2012-14

**Experience**

- Lecturer, MOOKAMBIGAI ENGINEERING COLLEGE, 2004 - 2007
- Lecturer, A.G.AWATE ENGINEERING COLLEGE, PUNE, 2007 - 2008
- Assistant Professor, MAM COLLEGE OF ENGINEERING, 2010 - 2010
- Assistant Professor, SRI SAIRAM COLLEGE OF ENGINEERING, 2016 - 2021

**Achievements**

- Ranked top 5% in Wireless Adhoc Network Conducted by NPTEL
- Got ELITE Certificate in "Cryptography and Network Security" Conducted by NPTEL
- Participated as Mentor in ALL INDIA HACKATHON 2018 in Panipat, Haryana
- Secured 100% from COURSERA on "Fundamentals of Network Communication" from University of Colorado.

**Teaching**

- Computer Networks
- Network Security
- Applied Cryptography
- Adhoc Networks

**Responsibilities**

- Mentor
- Class Coordinator

**Books**

- "Data Warehousing & Data Mining Concepts & Applications", M. Sheela Devi, P. Ramkumar, Dr. Anitha K, October 2021, Charulatha Publications, ISBN: 978-93-91405-80-9
- "Internet of Things", M. Sheela Devi, P. Ramkumar & Dr. S. Renuka Devi, ISBN-13: 978-93-5577-340-1, Charulatha Publications, December 2022

**Conferences**

- R. Uma, P. Ramkumar, J. Anith Ruth, R. Valarmathi and M. S. Devi, "Prediction of Lung Cancer using Data Mining Techniques," 2022 3rd International Conference on Smart Electronics and Communication (ICOSEC), 2022, pp. 975-977, doi: 10.1109/ICOSEC54921.2022.9952118

**Journals**

- M. Sheela Devi and K. Malar, "Performance Modeling of Caution Message Delivery in VANET-A Survey and Comparison," published in International Journal of Engineering Sciences & Research Technology, January 2014

issue.

- M. Sheela Devi and K. Malar, "Improved Performance Modeling of Emergency Message Broadcast in VANET," published in IEEE Conference Publication Program (CPP) via IEEE Xplore, pp. 463-467 ISBN 978-1-4799-3447-8. DOI 10.1109/ICoAC.2013.6921994, 2014 IEEE. IEEE Xplore link

- M. Sheela Devi and K. Malar, "Improved Performance Modeling of Intelligent Safety Message Broadcast in VANET: A Survey," published in IEEE Publication Program (CPP) via IEEE Xplore, pp. 95-98, 978-1-4799-3966-4/14 DOI 10.1109/ICICA.2014.29, 2014 IEEE. IEEE Xplore link

- M. Sheela Devi and K. Malar, "Improved Performance Modeling of Alert Message Dissemination in VANET," published in The International Journal of Computer Science Information and Engineering Technology (IJCSIET), Volume 1, Issue 4, Series 2, March 2014.

- "Encryption Protocol for Securing MANET- L To S," published in International Journal of Engineering Research in Computer Science & Engineering (IJERCSE), Volume 3, Issue 5, May 2016.

- "A Survey of Routing Protocols in MANET," published in International Journal of Engineering Research in Computer Science & Engineering (IJERCSE), Volume 3, Issue 5, May 2016. Link to article

- "Vehicle Health Monitoring System using CAN," published in International Journal of Engineering Research in Computer Science & Engineering (IJERCSE), Volume 4, Issue 4, May 2017. Link to article

- "Traffic Control in 4G Technology through Iterative Server," published in International Journal of Engineering Research in Computer Science & Engineering (IJERCSE), Volume 4, Issue 11, November 2017. Link to article

- "Intra Day-Big Data Analytics for Data Trading," published in JETIR, May 2019, Volume 6, Issue 5. Link to article

- "Automated Shopping Cart," published in Think India Journal, Volume 22, Issue 14, December 2019, ISSN: 097-1260. Link to article

- "A Study of CNN Based Brain Tumor Detection Using Deep Learning," published in Annals of R.S.C.B., ISSN: 1583-6258, Vol. 25, Issue 4, 2021, Pages. 13457–13465, April 2021, Scopus.

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**Shilpa S**

**Assistant Professor**

**About**

Completed M.Tech in CSE under VTU and Pursuing PhD [course work completed] in Jain under Deep learning. Having 12+ years of teaching experience in varies Engineering Colleges Currently working as an Assistant Professor in Computer science dept. , PESU

**Education**

- PhD, Jain, 2019 (started)

- M.Tech, VTU, 2013

- BE, VTU, 2008

**Experience**

- Assistant Professor, MVJCE, July 2012 - Feb 2021
- Assistant Professor, BMSCE, Oct 2010 - Mar 2012
- Lecturer, SCE, Apr 2009 - Oct 2010
- Assistant Professor, PESU, Feb 2021 - Till now

**Additional Information**

- Mobile Number: 9019515546

**Achievements**

- 4 National, 2 International Technical papers and 5 Journal Papers published
- NBA and NAAC coordination in previous colleges
- Chess State Champion in college level
- Hindi BA completed
- Department level works like Timetable, Result Analysis, Internal Assessment coordination

**Teaching**

- C, C++, Java, Python
- Machine Learning
- Artificial Intelligence
- File Structures

- Operating System
- UNIX
- IoT
- Python Application Programming
- Python for Computational Problem Solving
- Data Structures and Applications

**Responsibilities**

- Subject Handling
- Class Teacher

**Research Projects**

- Cognitive Diagnosis and Monitoring for Elderly via Recursive Auto-Encoders & Transfer Learning

**Conferences**

- "ADVANCED NODE CATEGORIZED ALGORITHM TO PREVENT DROPPING AND MODIFYING PACKETS IN WSN" in IJCRD March 2014 Vol-2; Issue-3, Page no[1-9]
- "INTELLIGENT DATA MINING TOOLS FOR RESENT TECHNOLOGIES" in MVJCE Oct-13 Issue-2, Page no[48-58]

**Journals**

- "MALWARE DETECTION USING MACHINE LEARNING" in International Journal of Management, Technology And Engineering, Volume IX, Issue VI, June 2019, ISSN NO: 2249-7455

- "DEEP LEARNING APPROACHES FOR CYBER SECURITY IN NETWORK INTRUSION DETECTION" in International Journal of Management, Technology And Engineering, Volume IX, Issue VI, June 2019, ISSN NO: 2249-7455

- "IOT BASED REMOTE HEALTH MONITORING SYSTEM FOR ELDERLY PEOPLE" in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 9, Issue 1, September 2020

- "HIGH SECURED CLOUD IN DATA PROCESSING FOR CLOUD COMPUTING" in JUST-M Jan-2014 Issue-5, Page no[1-4] National Journal

- "REAL TIME TWO-WAY COMMUNICATION FOR DEAF AND DUMB" in ICTACT Journal on Communication Technology

**Others**

- Patent title: "SHABDKOSH DEVICE FOR WOMEN SAFETY IN PUBLIC" published under Controller General of Patents, Designs & Trade Marks, G.S.T. Road, Guindy, Chennai-600032, on 16/10/2020

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**Shruthi L**

**Assistant Professor**

**Education**

- B.Tech-Computer Science and Engineering, PESIT, 2012

- M.Tech-Computer Science and Engineering, APS College Of Engineering, 2014

- Pursuing PhD in Computer Science and Engineering, PES University, 2022

**Surbhi Choudhary**

**Assistant Professor**

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**Swathi Priya N**

**Assistant Professor**

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**Swetha Patil**

**Assistant Professor**

**About**

Compassionate, creative, and effective teacher with valuable experience in classroom administration, professional development, and project planning. Extensive experience in the education environment as a student-centric instructor, academic facilitator, and mentor. Equally effective whether performing independently or as a member of a teaching team. Well-versed in the technology of education both in the classroom and online.

**Education**

M.Tech, RYMEC, Bellary, VTU, 2014

Pursuing Ph.D, admitted in 2022, SDM, Dharwad, VTU, 2022
B.E, PDIT, Hospet, VTU Belgaum, 2006

**Experience**

Assistant Professor, PESU, EC campus, 2023 - Till date
Assistant Professor, Dayananda Sagar University, Bengaluru, 2021 - 2023
Assistant Professor, Sri Sairam College of Engineering, 2019 - 2021
Lecturer, Shirdi Sai Engineering College, 2010 - 2011
Lecturer, PDIT, Hospet, VTU Belgaum, 2006 - 2008

**Additional Information**

Lifetime Member of ISTE

**Achievements**

Published 3 patents
Academic Excellence award

**Teaching**

- Digital Design and Computer Organization
- Python Lab
- Big Data and Deep Learning
- Artificial Intelligence
- Operating System
- Java
- Software Engineering
- C
- System Modeling and Simulation

**Responsibilities**

- Class Coordinator
- Mentor

**Research Interest**

Machine Learning in Agriculture domain

**Books**

Book Chapter under the Title: "Oral Squamous Cell Carcinoma Diagnosis Using Spotted Hyena Optimizer Combined with Transfer Learning Approaches"

**Conferences**

Puzzle Optimization Algorithm based Weighted Feature Selection for Identification of Rice Leaf Disease Through Thermal Images

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**Uday Bhaskar**

**Assistant Professor**

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**Umme Haani**

**Assistant Professor**

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