

CURRICULUM VITAE

Dr. Suresh Kumar Pemmada,

B.Tech., M.tech., Ph. D

Assistant Professor

Department of Information Technology

Aditya Institute of Technology and Management (AITAM)

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Career Objective:

A thorough professional with the ability to consistently set and achieve new targets thereby seeks a challenging opportunity in an organization. Blessed with an extensive leadership and Teaching skills along with a proven mastery of presentations. Able to implement effective interpersonal relationship in Teaching & Research.

Educational Qualifications:

- **Ph. D in Engineering**, Dept. of Information Technology, *Veer Surendra Sai University of Technology (VSSUT)*, Burla, Sambalpur, Odisha, **Title of the Thesis:** "Effective Design of Intelligent Computing Framework for Qualitative Software

Product Development”, Under the Esteemed Guidance of Dr. H. S. Behera, Professor, Dept. of IT, VSSUT, Burla, **Award Date:** 29th June, 2022.

- **M.Tech** in Computer Science and Engineering from *University College of Engineering*, JNTUK, Vizianagaram. (71.06%) (2012)
- **B.Tech** in Computer Science and Engineering from *G.M.R. Institute of Technology*, Rajam. (56.09%) (2008)
- **Intermediate** in *S.Thammi Naidu Jr. College*, Palakonda.(77.00%)
- **SSC** in *Navodaya Model School*, Palakonda. (85.00%)

Professional Experience: 9.5 Years

- Working as an Assistant Professor in Dept. of Information Technology in *Aditya Institute of Technology and Management*, Tekkali, Andhra Pradesh. (Period: **1st November 2021 to till date**)
- Worked as an Assistant Professor in Dept. of Computer Science and Engineering in *Dr. Lankapalli Bullayya College of Engineering*, Visakhapatnam, Andhra Pradesh. (Period: **August 2017 to October 2021**)
- Worked as an Assistant Professor in Dept. of Computer Science and Engineering in *Sri Sivani College of Engineering*, Srikakulam, Andhra Pradesh. (Period: **December 2012 to August 2017**)

Achievements:

- **Ratified** as *Assistant Professor* in Information technology, AITAM, Tekkali by JNTUK, Kakinada
- **Ratified** as *Assistant Professor* in Computer Science and Engineering, SSCE, Chilakapalem, and AITAM, Tekkali by JNTUK, Kakinada.
- Qualified GATE in 2010 (Percentile = 90.6, Score = 383).

Professional Curricular Activities

- **Web Administrator** in AITAM, Tekkali.
- Website In charge, Member in **Editorial Committee** in Campus Glimpses in **Dr. Lankapalli Bullayya College of Engineering (Women)**

- In charge of Website, E-CAP (College Automation Package), Editorial, NBA, NAAC Committees in Sri Sivani College of Engineering.

LIST OF PUBLICATION DETAILS

[Total: 20 (International: 18, National: 2)]

[SCIE Indexed: 2, ESCI Indexed: 2, SCOPUS Indexed: 15]

International Journals

1. **Suresh Kumar Pemmada**, J. Nayak, and H. S. Behera, "Model-based Software Defect Prediction from Software Quality Characterized Code Features by using Stacking Ensemble Learning," *Journal of Engineering Science and Technology Review.*, vol. 15, no. 2, pp. 137-155, 2022, doi: 10.25103/jestr.152.17. [Indexing: SCOPUS] [Impact Factor: 1.1] [h-Index: 31]
2. **Suresh Kumar Pemmada**, H. S. Behera, J. Nayak, and B. Naik, "Correlation-based modified long short-term memory network approach for software defect prediction," *Evolving Systems*, Feb. 2022, doi: 10.1007/s12530-022-09423-7. [Indexing: SCIE, SCOPUS] [SPRINGER] [Impact Factor: 1.9] [h-Index:28]
3. H. Swapnarekha, H. S. Behera, J. Nayak, B. Naik, and **Suresh Kumar Pemmada**, "Multiplicative Holts Winter Model for Trend Analysis and Forecasting of COVID-19 Spread in India," *SN Computer Science.*, vol. 2, no. 5, p. 416, Sep. 2021, doi: 10.1007/s42979-021-00808-0. [Indexing: SCOPUS] [SPRINGER] [Impact Factor: 1.29]
4. **Suresh Kumar Pemmada**, H. S. Behera, J. Nayak, and B. Naik, "Bootstrap aggregation ensemble learning-based reliable approach for software defect prediction by using characterized code feature," *Innovations in Systems and Software Engineering*, pp. 1-22, May 2021, doi: 10.1007/s11334-021-00399-2. [Indexing: ESCI, SCOPUS] [SPRINGER] [Impact Factor: 1.07] [h-Index:27]
5. **Suresh Kumar Pemmada**, H. S. Behera, J. Nayak, and B. Naik, "A pragmatic ensemble learning approach for effective software effort estimation,"

Innovations in Systems and Software Engineering, Jan. 2021, doi: 10.1007/s11334-020-00379-y. [Indexing: **ESCI**, **SCOPUS**] [**SPRINGER**] [**Impact Factor: 1.07**] [**h-Index:27**]

6. **Suresh Kumar Pemmada**, H. S. Behera, Anisha Kumari. K, J. Nayak, and B. Naik, "Advancement from neural networks to deep learning in software effort estimation : Perspective of two decades," *Computer Science Review*, vol. 38, pp. 100288, 2020, doi: 10.1016/j.cosrev.2020.100288. [Impact Factor: **7.707**] [Indexing: **SCIE**, **SCOPUS**] [**ELSEVIER**] [**h-Index:44**]
7. P. Landa and **Suresh Kumar Pemmada**, "Dynamic Data Segmentation and Virtual Machine Mapping," *Imp. J. Interdiscip. Res.*, vol. 2, no. 8, pp. 876–879, 2016.
8. L. Ariyapalli, R. Kumar, and **Suresh Kumar Pemmada**, "K-Medoids Computation Model Framework for Security in Distributed Architecture Networks," *Int. J. Comput. Appl.*, vol. 131, no. 14, pp. 1–3, ISBN: 973-93-80890-41-1, IF=0.715, Dec. 2015.
9. **Suresh Kumar Pemmada** and M. H. M. K. Prasad, "Multi-Tree Classification for Uncertain Markov Random Fields," *Int. J. Comput. Intell. Res.*, vol. 9, no. 1, pp. 1–6, 2013.

International Conferences

1. **Suresh Kumar Pemmada**, Janmenjoy Nayak, H S Behera. "Early Detection of Stroke Risk using Optimized Light Gradient Boosting Machine approach based on Demographic data". In: *International Conference on Ambient Intelligence in Health Care*. Smart Innovation, Systems and Technologies, [**Accepted**], Published by: **SPRINGER**, [Indexing: **SCOPUS**].
2. **Suresh Kumar Pemmada**, Janmenjoy Nayak, H S Behera, Danilo Pelusi. "Light Gradient Boosting Machine in Software Defect Prediction: Concurrent Feature Selection and Hyper Parameter Tuning". In: *International Conference on Intelligent Sustainable Systems*. Lecture Notes in Networks and Systems, [**In Press**], Published by: **SPRINGER**, [Indexing: **SCOPUS**].

3. **Suresh Kumar Pemmada**, Pedada, R., Nayak, J., Behera, H.S., Sai Pratyusha, G.M., Velugula, V. (2022). QCM Sensor-Based Alcohol Classification Using Ensembled Stacking Model. In: Nayak, J., Behera, H., Naik, B., Vimal, S., Pelusi, D. (eds) *Computational Intelligence in Data Mining*. Smart Innovation, Systems and Technologies, vol 281. Springer, Singapore. https://doi.org/10.1007/978-981-16-9447-9_49, Published by: **SPRINGER**, [Indexing: **SCOPUS**].
4. Kameswara Rao, B., Prasan, U.D., Jagannadha Rao, M., Pedada, R., **Suresh Kumar Pemmada** (2022). Identification of Heart Failure in Early Stages Using SMOTE-Integrated AdaBoost Framework. In: Nayak, J., Behera, H., Naik, B., Vimal, S., Pelusi, D. (eds) *Computational Intelligence in Data Mining*. Smart Innovation, Systems and Technologies, vol 281. Springer, Singapore. https://doi.org/10.1007/978-981-16-9447-9_41, Published by: **SPRINGER**, [Indexing: **SCOPUS**].
5. **Suresh Kumar Pemmada**, Anisha Kumari K, Subhashree Mohapatra, Bighnaraj Naik, Janmenjoy Nayak, Manohar Mishra, "CatBoost Ensemble Approach for Diabetes Risk Prediction at Early Stages," in *1st Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology(ODICON)*, 2021, pp. 1-6, Organizer: Siksha 'O' Anusandhan Deemed to be University, Place : Bhubaneswar, India, **doi**: 10.1109/ODICON50556.2021.9428943, Published by : **IEEE Explore**, [Indexing: **SCOPUS**].
6. B. K. Rao, **Suresh Kumar Pemmada**, D. K. K. Reddy, J. Nayak, and B. Naik, "QCM Sensor-Based Alcohol Classification by Advance Machine Learning Approach," in *1st Intelligent Computing in Control and Communication*, 2021, vol. 702, pp. 305-320, Organizer: Aditya Institute of Technology and Management, Place : Tekkali, India, Published by : Lecture Notes in Electrical Engineering (LNEE Series), **doi**: 10.1007/978-981-15-8439-8_25, **SPRINGER**, Singapore. [Indexing: **SCOPUS**].
7. **Suresh Kumar Pemmada** and H. S. Behera, "Estimating Software Effort Using Neural Network: An Experimental Investigation," in *2nd International conference*

Computational Intelligence in Pattern Recognition, 2020, vol. 1120, pp. 165–180, Organizer: IEM, Place : Kolkata, Published by : Advances in Intelligent Systems and Computing (AISC Series), doi: 10.1007/978-981-15-2449-3_14, **SPRINGER**, Singapore. [Indexing: **SCOPUS**].

8. **Suresh Kumar Pemmada** and H. S. Behera, “Role of Soft Computing Techniques in Software Effort Estimation: An Analytical Study,” in *Computational Intelligence in Pattern Recognition*, 2020, pp. 807–831, Organizer: IEST, Place : Shibpur, Published by: Advances in Intelligent Systems and Computing (AISC Series), doi: 10.1007/978-981-13-9042-5_70, **SPRINGER**, Singapore. [**SCOPUS**].

Book Chapters

1. Reddy D.K.K., Behera H.S., Nayak J., Routray A.R., **Suresh Kumar Pemmada**, Ghosh U. (2022) A Fog-Based Intelligent Secured IoMT Framework for Early Diabetes Prediction. In: Intelligent Internet of Things for Healthcare and Industry. Internet of Things (Technology, Communications and Computing). **Springer**, Cham. [Indexing: **SCOPUS**]
2. J. Nayak, **Suresh Kumar Pemmada**, D. K. Reddy, and B. Naik, “Identification and classification of hepatitis C virus: an advance machine-learning-based approach,” in *Blockchain and Machine Learning for e-Healthcare Systems*, Institution of Engineering and Technology, 2020, pp. 393–415. doi: 10.1049/PBHE029E_ch, [**IET Digital Library**] [Indexing: **SCOPUS**]
3. J. Nayak, **Suresh Kumar Pemmada**, D. K. Reddy, B. Naik, and Danilo Pelusi. "Machine Learning and Big Data in Cyber-Physical System: Methods, Applications and Challenges." *Cognitive Engineering for Next Generation Computing: A Practical Analytical Approach* (2021): 49-91. doi: 10.1002/9781119711308.ch2 [**Wiley**] [Indexing: **SCOPUS**]

National Conferences

1. **Suresh Kumar Pemmada**, A. Mahesh “Automatic Face Identification Attendance System”, in the Proceedings of National Conference on

Computation and Communication, Sri Sivani College of Engineering, Chilakapalem, Dt : 23rd -24th December 2016

2. G. Santosh Kumar, Ravi Kumar, and **Suresh Kumar Pemmada**, "A GUI Based Tool for Clustering Graph Streams", in the Proceedings of A DST Sponsored National Conference on "Recent Trends In Data Mining & Warehousing", Aditya Institute of Technology, Tekkali, Dt : 24th -25th November 2015.

Workshops, Faculty Development Programs, Conferences Attended

1. Participated One Week National Level Workshop on "**Python Programming**", from 20th June to 26th June, 2022, organized by the Department of CS, Maharaja Sriram Chandra BhanjaDeo (MSCB) University.
2. Participated AICTE Sponsored QIP Short Term Course on "**Recent Trends and Applications in Artificial Intelligence**", from 14th Mar to 19th Mar, 2022, organized by the Department of CSE, IIIT- Kancheepuram.
3. Participated AICTE Sponsored QIP Short Term Course on "**Machine Intelligence for Computer Vision**", from 28th Feb to 05th Mar, 2022, organized by the Department of CSE, IIIT- Kancheepuram
4. Participated one week Faculty Development Program on "**Artificial Intelligence and Machine Learning**", from 25 to 30 Dec, 2021, organized by EI&CT, IIT Gauwahati, in association with Aditya Institute of Technology and Management, Tekkali.
5. Participated online workshop on "**Elsevier Author Workshop: Fundamentals of Research Article Writing**", 4th June 2021, organized by School of Engineering and Technology, Centurion University.
6. Participated in 15 days online workshop on "**Application of Data Science for Industries Problem through Python**" from 10th August 2020 to 28th August 2020, organized by UCE, JNTUK Kakinada Campus in association with EXCLER.

7. Participated in a webinar on “**Preparation of Quality Journal Papers and Book Chapters**” presented by Dr. Janmenjoy Nayak organized by Aditya Institute of Technology, Tekkali on 9th August 2020.
8. Participated **International Webinar Series** organized by Machine Intelligence Research Labs (MIR Labs), USA. Topics include:
 - a. **An Overview of Machine Learning Based Intelligent Computing and Applications** by Prof. Dr. Ganapati Panda, Former Dy Director, IIT Bhubaneswar, India on July 27, 2020
 - b. **Linear Algebra for Machine Learning** by Prof. RNDr. Václav Snášel, CSc., VSB Technical University of Ostrava, Czech Republic on July 23, 2020.
 - c. **Multi Criteria Decision Making - Trends and Developments** by Prof. Dr. Millie Pant, Indian Institute of Technology Roorkee, India on July 23, 2020.
 - d. **Fundamentals of Reinforcement Learning** by Prof. Dr. Lucian Busoniu, Technical University of Cluj-Napoca, Romania on July 22, 2020.
 - e. **Computational Intelligence in Supply Chain Management** by Prof. Dr. Thomas Hanne, University of Applied Sciences and Arts Northwestern Switzerland, Switzerland on July 22, 2020.
 - f. **Optimization of Type-2 Fuzzy Systems: Theory and Applications** by Prof. Prof. Dr. Oscar Castillo, Tijuana, Institute of Technology, Mexico on July 21, 2020.
 - g. **Intelligent Data Mining** by Prof. Dr. Tzung-Pei Hong, National University of Kaohsiung, Taiwan on July 21, 2020.
 - h. **Ambient Intelligence: Convergence of Technologies for Smart Living** by Prof. Dr. Vincenzo Piuri, Department of Computer Science, Università degli Studi di Milano, Italy on July 20, 2020

- i. **Granular Mining in Video Analytics** by Prof. Sankar K. Pal, FNA, FASc, FTWAS, FIAPR, FIEEE INSA Distinguished Professor Chair, Distinguished Scientist and former Director, Indian Statistical Institute, India on July 20, 2020
 - j. **An Affect- based, Smart, Tutoring System with Personalized Learning Facilities of an Indoor Environmental Quality** by Prof. Dr Habil. Arturas Kaklauskas, Vilnius Gediminas Technical University, Lithuania on July 20, 2020.
9. Participated in SCRS Lecture Series on Soft Computing on "**Complex Real Parameter Optimization - Differential Evolution and Beyond**" organized by Soft Computing Research Society, New Delhi from 13th – 15th July 2020.
 10. Participated in **One Week online Faculty Development Programme on “Intelligent Computing in Data Science” (ICDS-2020)** organized by Aditya Institute of Technology and Management(A), Tekkali from 14th – 20th June 2020.
 11. Participated in **Three-day Faculty Development Programme on “Research Initiatives in Information Technology”** organized by Dr. Lankapalli Bullayya College of Engineering (Women) from 1st June 2020 to 3rd June 2020
 12. Participated in **“Teaching and Training with Google Classroom”** organized by Dr. Lankapalli Bullayya College of Engineering (Women) from 22nd May 2020 to 24th June 2020
 13. Participated in 5th International Conference on **“Computational Intelligence in Data Mining”** at Veer Surender Sai University of Technology, Burla on 15-16 Dec 2018.
 14. Participated in 1st International Conference on **“Soft Computing and Data Analytics” (SCDA-2018)** at Sri Sivani College of Engineering on 10-11 March 2018.
 15. Participated in 3-Day national Level workshop on **“Recent trends & Implications of Image Processing (RTIIP - 2k16)”** organized by SSCE, Chilakapalem on 28th 29th and 30th July 2016.

16. Participated **10-Day Faculty development programme on Data Mining (DM-2k16)** at Sri Sivani College of Engineering from 7-16, May 2016.
17. Participated in a 3-day National Level FDP on “**Outcome based Education (OBE-2015)**” at Sri Sivani College of Engineering on 3-5, Dec 2015.
18. Attended Three Day National Level Workshop on “**Advances in Image Processing and Visualization Techniques (AIPVT - 2k15)**” at SSCE, Chilakapalem on 30th Oct and 1st Nov 2015.
19. Participated One Day Workshop on **Big Data Analytics on Cloud (BAC - 2015)** at SSCE, Chilakapalem on 17th July 2015.
20. Attended **One day Faculty development Program on Software Project Management** in UCE, JNTUK Kakinada Campus held on 6th Jan 2014.
21. Attended an AICTE sponsored national level seminar on **Biologically Inspired Computing and its Applications** at Sri Sivani College of Engineering Chilakapalem on 22nd and 23rd Nov 2013.
22. Attended a Faculty Development Program on **Teaching & Learning and Technical Updates** at Sri Sivani College of Engineering Chilakapalem on 3rd May 2013.

Reviewer of international journals:

1. Evolutionary Intelligence, Springer
2. IEEE Access
3. IET Software
4. International Journal of Image and Graphics

Reviewer of International Conferences:

1. 4th International Conference on “**Computational Intelligence in Pattern Recognition**”, Institute of Engineering and Management, Kolkata
2. 6th International Conference on **Computational Intelligence in Data Mining** at Veer Surender Sai University of Technology, Burla.

3. 3rd International Conference on “**Computational Intelligence in Pattern Recognition**”, Institute of Engineering and Management, Kolkata
4. 1st International Conference on “**Green Technologies for smart city and Society**”, Institute of Technical Education and Research, Siksha ‘O’ Anusandhan University, Bhubaneswar, India.
5. 2nd International Conference on “**Intelligent and Smart Computing in Data Analytics**”, K L University, INDIA.
6. 1st Odisha International Conference on “**Electrical Power Engineering, Communication, and Computing Technology (ODICON0-2020)**”, Siksha 'O' Anusandhan, Bhubaneswar.
7. 2nd International Conference on “**Computational Intelligence in Pattern Recognition**”, Institute of Engineering and Management, Kolkata
8. 1st International Conference on “**Innovation in Electrical Power Engineering, Communication and Computing Technology**”, Institute of Technical Education and Research, Siksha 'O' Anusandhan, Bhubaneswar.
9. 1st International Conference on **Application of Robotics in Industry using Advanced Mechanisms**
10. 1st International Conference on **Computational Intelligence in Pattern Recognition**, Indian Institute of Engineering Science and technology, Shibpur.
11. 5th International Conference on **Computational Intelligence in Data Mining** at Veer Surender Sai University of Technology, Burla.

Organized:

1. Organized “4th International Conference on Computational Intelligence in Pattern Recognition (CIPR-2022)” at Indian Institute of Engineering Science and Technology, Shibpur Kolkata. [Role: **Web Chair**]. (Date: 23rd – 24th April 2022).

2. 6th International Conference on Computational Intelligence in Data Mining (ICCIDM) at Aditya Institute of Technology and Management, Tekkali [Role: **Web Chair**]. (Date: 11th – 12th December 2021).
3. 2nd International Conference on Innovation in Electrical Power Engineering, Communication, and Computing Technology (IEPCCT) at Institute of Technical Education and Research, Siksha 'O' Anusandhan, Bhubaneswar. [Role: **Web Chair**]. (Date: 24- 26 September 2021).
4. Organized “1st International Conference on Green Technology for Smart City and Society (GTSCS)” at Institute of Technical Education and Research, Siksha 'O' Anusandhan, Bhubaneswar. [Role: **Web Chair**]. (Date: 13th August and 5th August 2020).
5. Organized Three-day Faculty Development Programme on “Research Initiatives in Information Technology”, at Dr. Lankapalli Bullayya College of Engineering (Women), Visakhapatnam [Role: **Coordinator**]. (Date: 1st June to 3rd June 2020).
6. Organized “2nd International Conference on Computational Intelligence in Pattern Recognition (CIPR-2019)” at Institute of Engineering and Management, Kolkata. [Role: **Web Chair**]. (Date: 4th January and 5th January 2020).
7. Organized “1st International Conference on Innovation in Electrical Power Engineering, Communication and Computing Technology” at: Institute of Technical Education and Research, Siksha 'O' Anusandhan, Bhubaneswar. [Role: **Web Chair**]. (Date: 13th December and 14th December 2019).
8. Organized National Conference on “Computation and Communication at Sri Sivani College of Engineering, Chilakapalem. [Role: **Coordinator**]. (Date: 24th December to 25th December 2016).

Personal Profile:

Name	:	Suresh Kumar Pemmada
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1. Prof. G Sahoo.
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2. Prof. H S Behera,
Professor, Dept. of IT,
Veer Surendra Sai University of Technology,
Burla, Odisha, India.
Email: hsbehera_india@yahoo.com
3. Dr. Janmenjoy Nayak,
P.G Department of Computer Science,
Maharaja Sriram Chandra Bhanja Deo (MSCB) University,
Baripada, Odisha, India.
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Declaration:

I hereby confirm that all the details furnished by me are correct to my sense and I bear the responsibility for the truthfulness of information.



Place: Visakhapatnam

Suresh Kumar Pemmada

Date: 1 August 2022