

Name: H. Swapna Rekha

Employee ID: A5INT00T26

Designation: Assistant Professor

Department: Information Technology

Date of Birth: 23-03-1980

Father Name: Sri. H.V.S. Ramakrishna Rao

Mother Name: Smt. M. Vijayalakshmi

Reservation Category if Any: BC-A

Address: Flat No:201, GVK Residency, Sana Street,
Srikakulam.

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Date of Joining in the Institution: 01-08-2020

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph. D (I.T) Pursuing	Veer Surendra Sai University of Technology (VSSUT), Odisha	-	-
M. Tech (CSE)	AITAM, Tekkali Affiliated to JNTU, Kakinada	First Class with Distinction	2010
M.Sc (Information Systems)	Gayatri College of Science & Management Affiliated to AU, Vishakhapatnam	First Class with Distinction	2003
Bachelor of Computer Application	Gayatri College of Science & Management Affiliated to AU, Vishakhapatnam	First Class with Distinction	2001



Total Years of Experience (Teaching/Industry): 10 Years 7 Months

Period		Organization/Institution/Industry	Designation
August 2020	Till Date	AITAM, Tekkali	Assistant Professor
November 2010	May 2020	Sri Sivani College of Engineering, Chilakapalem	Associate Professor

Areas of Interest:

1. Programming for Problem Solving
2. Data Structure and Algorithms
3. Java Programming
4. Python programming
5. Design and Analysis of Algorithms
6. Operating Systems
7. Computer Networks
8. Cryptography & Network Security

Ph.D Guiding: -NIL-

Academic Projects Guided:

- i) Masters Projects : 04
- ii) Bachelor Projects : 11

Sponsored Projects: NIL

Funding from external agencies: NIL

Honors and awards received: NIL

Memberships of Professional Societies:

- **IE** [Member No. 95502979]

Other Responsibilities: NIL

Details of Publications:

International Journals:

1. Ding, Weiping, Janmenjoy Nayak, **H. Swapnarekha**, Ajith Abraham, Bighnaraj Naik, Danilo Pelusi. "**Fusion of Intelligent Learning for COVID-19: A State-**

- of-the-Art Review and Analysis on Real Medical Data."** Neurocomputing (2021). <https://doi.org/10.1016/j.neucom.2021.06.024>
2. **Swapnarekha. H,** Himansu Sekhar Behera, Debanik Roy, Sunanda Das & Janmenjoy Nayak "**Competitive Deep Learning Methods for COVID-19 Detection using X-ray Images.**" Journal of The Institution of Engineers (India): Series B (2021): 1-14
 3. **Swapnarekha, H.,** Himansu Sekhar Behera, Janmenjoy Nayak & Bhignaraj Naik. "**Covid CT-net: A deep learning framework for COVID-19 prognosis using CT images.**" Journal of Interdisciplinary Mathematics 24.2 (2021): 327-352.
 4. Nayak Janmenjoy, Manohar Mishra, Bighnaraj Naik, **Hanumanthu Swapnarekha,** Korhan Cengiz, Vimal Shanmuganathan. "**An impact study of COVID - 19 on six different industries: Automobile, energy and power, agriculture, education, travel and tourism and consumer electronics.**" Expert systems (2021).
 5. **Swapnarekha, H.,** Himansu Sekhar Behera, Janmenjoy Nayak & Bhignaraj Naik. "**Role of intelligent computing in COVID-19 prognosis: A state-of-the-art review.**" Chaos, Solitons & Fractals 138 (2020): 109947.
 6. Choudhari Ranjit Kumar & **H.Swapna Rekha** "**A Novel Incentive Framework to Delay Tolerance for Mobile Traffic Offloading**" in International Journal & Magazine of Engineering Technology, Management & Research-Volume no:3(2016) Issue no:9
 7. H. Swapna Rekha "**A novel framework for Effective video streaming and sharing resources on a cloud environment**" in Journal of computing Technologies (2278 – 3814) / # 21 / Volume 3 Issue 12
 8. **H. Swapna Rekha,** "**A Novel Privacy Protection for hiding sensitive data on social networks**" in Journal of computing Technologies (2278 – 3814) / # 130 / Volume 3 Issue 10
 9. **H. Swapna Rekha ,** "**Storage Data Security of data in cloud computing**" in IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-

8727, Volume 16, Issue 4, Ver. VI (Jul – Aug. 2014), PP 71-77\

- 10.D.Azad, **H.S.Rekha** and K.Ramji “**An effective IP algorithm for active IR thermographs: detecting defects metallic stuffs**” in Int. J. of Multimedia Intelligence and Security 2.3-4 (2011): 296-319.

Book Chapters

1. **H.Swapna Rekha**, Janmenjoy Nayak, Danilo Pelusi, G.T.ChnadraShekar. “**Impact of IoT in Healthcare: Improvements and Challenges.**” The Digitalization Conundrum in India: Applications, Access and Aberrations (2020): 73.
2. **H. Swapnarekha**, Janmenjoy Nayak, and Bighnaraj Naik. “ **Impact of IoT in agriculture: advances and challenges.**” Internet of Things (2020): 127-154.

International Conferences:

1. **Swapnarekha, H.**, Himansu Sekhar Behera, Janmenjoy Nayak & Bhignaraj Naik. “**Deep DenseNet and ResNet Approach for COVID-19 prognosis: Experiments on Real CT Images**”, In International Conference on Computational Intelligence in Pattern Recognition, Date : 24th and 25th `April 2021, Organizer :IEM, Place: Kolkata, Published by :Advances in Intelligent Systems and Computing book series , **Springer, Switzerland.**
2. **Swapnarekha, H.**, Himansu Sekhar Behera, Janmenjoy Nayak & Bhignaraj Naik. “**Deep Learning for COVID-19 Prognosis: A Systematic Review.**” In International Conference on Intelligent Computing in Control and Communication. Date: 7th and 8th August 2020, Organizer: AITAM, Place: Tekkali, Published by Lecture Notes in Electrical Engineering, **Springer, Switzerland.**
3. **Swapnarekha, H.**, Himansu Sekhar Behera, Janmenjoy Nayak & Bhignaraj Naik. “**Pi-sigma neural network : Survey of Decade Progress**”, In International Conference on Computational Intelligence in Pattern Recognition, Date : 4th and 5th `Jan 2020, Organizer :IEM, Place: Kolkata, Published by :Advances in Intelligent Systems and Computing book series , volume 1120, pp 429- 441 ,**Springer, Switzerland.**
4. **Swapnarekha, H.**, Janmenjoy Nayak, Bhignaraj Naik & Danilo Pelusi. “**Soft**

Computing in Robotics: A Decade Perspective”, In International Conference on Application of Robotics in Industry using Advanced Mechanisms, Date : 16-17 August 2019, Organizer : GIFT, Place: Bhubaneswar, Published by : Learning and Analytics in Intelligent Systems (LAIS) book series, Vol. 5, pp. 59-78, **Springer, Switzerland.**

- 5 T. PanduRanga Vital, B. G. Lakshmi, **H. Swapna Rekha** & M. DhanaLakshmi. **“Student Performance Analysis with using statistical and Cluster Studies”** In 1st International Conference on Soft Computing in Data Analytics (SCDA-2018), Date : March 10-11, 2018, Organizer : Sri Sivani College of Engineering, Place: Srikakulam, Published by : *Advances in Intelligent Systems and Computing*(AISC Series), Vol. 758, pp. 507-524. **Springer International Publishing.**
- 6 **H. Swapna Rekha** &P. Vijaya Lakshmi. **“Classification on DNA sequences of Hepatitis B Virus”** In ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of Computer Society of India - Volume I, **Springer International Publishing.**

National Conference:

1. Published a paper on **“Internet of Things (IoT) for smart Hospitals”** in the National Conference Computation and Communication, at Sri Sivani College of Engineering on 23rd &24th December 2016
2. Published a paper on **“A Two Layer Recurrent Neural Network for Nonsmooth Convex optimization problems”** in the National Conference Computation and Communication, at Sri Sivani College of Engineering on 23rd &24th December 2016
3. Published a paper on **“Improved One-to-Many Data Linkages using Clustering Tree”** in National Conference on recent Trends in Data Mining & Ware Housing at AITAM Tekkali, November 2015
4. Published a paper on **“A Document of Ant Clustering by the Result of Topographic Mapping”** in NCATCS-2K12

Details of Conferences / Workshops / Refresher Courses Organized:

1. One week **Short Term Training Programme** through ICT mode on **“Outcome**

- based Education and Accreditation**”, National Institute of Technical Teacher’s Training and Research, Kolkata and Sri Sivani College of Engineering, AP, Dt. : 24th to 28th September 2018.
2. Organized a **“Five days APSSDC workshop on Android”** in Sri Sivani College of Engineering, AP, India. June 2018.
 3. Organized a **Three days National Level Workshop on “Applications of Machine Learning and Big Data (AMLBD-2018)”**, Sri Sivani College of Engineering, AP, India. September 2018 (Date : 18-20 September, 2018)
 4. Organized a **Three Day National Level FDP on “OUTCOME BASED EDUCATION”** in Sri Sivani College of Engineering, AP, India. December 2015.
 5. Organized a **Three Day National Level Workshop on “Advances in Image processing and Visualization Techniques (AIPVT-2K15)”** in Sri Sivani College of Engineering, AP, India. November 2015 .

Details of Conferences / Workshops / Refresher Courses Attended:

1. **Five Day International Workshop on “Building Data-Driven Solutions Using Data Analytics with ML and DL Algorithms”**, Department of CSE, CBIT(A), Hyderabad, Telangana, 24th June to 28th June 2021.
2. **One week Online FDP on “Machine Learning using Python Programming”**, Department of Information Technology, AITAM, Tekkali, 10th- 16th June 2021.
3. **Three Day National Level FDP on “Machine Learning”**, Department of CSE, RISE Krishna Sai Prakasam Group of Institutions, Ongole, 4th to 6th June 2021.
4. **Faculty Development Program on “Data Science and its Applications with Python”**, Department of Computer Science and Engineering, NIT Warangal. 10th - 19th May, 2021
5. **One Day Webinar on “Women Entrepreneur ship- Opportunities and Challenges” in 21st Century**”, Women Entrepreneur Development cell, AITAM, Tekkali, 27 February 2021.

6. **Six days AICTE sponsored short term training program on “AI Powered Solutions for Healthcare Innovations (Phase I)”**, KCG College of Technology, Chennai, 26th to 31st December 2020
7. **One week AICTE sponsored online short term training program on “Machine Learning and its Applications (Phase II)”**, Lendi Institute of Engineering and Technology, AP, Dt: 23rd to 28th November, 2020
8. **International webinar on “Computational Advances for Biomedical Engineering”**, IEST, Shibpur, 23rd to 27th November 2020.
9. **One week AICTE sponsored online short term training program on “Machine Learning and its Applications (Phase I)”**, Lendi Institute of Engineering and Technology, AP, Dt: 2nd to 7th November, 2020
10. **A webinar on “Preparation of Quality Journal Papers and Book Chapters”**, Department of Computer Science & Engineering, AITAM, 9th August 2020
11. **Five day Workshop on “Python Programming”** organized by APSSDC, Dates 3rd to 7th August, 2020
12. **A webinar on “Preparation of Quality Journal Papers and Book Chapters”**, R&D Cell-Computer Dept, PCCOE, Pune, 5th August 2020
13. **Faculty Development Program on “AI and Deep Learning”** organized by APSSDC, 1st July to 28th July 2020.
14. **A series of Webinars** organized by Machine Intelligence Research Labs on 20th July to 22nd July and 27th July 2020.
15. **Five day FDP on “Introduction to Machine Learning using Python”** organized by Soft computing Research Society, New Delhi, 11th and 12th July and 18th and 20th July 2020.
16. **One day National level workshop on “Latex for Technical Document Preparation”**, Computer Society of India, Kolkata Chapter, 26th July 2020.
17. **One week Faculty Development Program on “Advanced Data Science and its Applications”**, Department of CSE & IT, BVRIT HYDERABAD College of Engineering for Women, 22nd to 26th June 2020.

- 18. One week online Faculty Development Program on “Intelligent Computing in Data Science”,** Department of Computer Science & Engineering, AITAM, 16th to 20th June 2020
- 19. Five days Faculty Development Program on “Deep learning for medical Data Analysis, Visualization and Predictions”** organized by EduxLabs, 12th to 16th June 2020
- 20. Two day webinar on “Research Methodology”,** Chaitanya Engineering College, AP, 5th and 6th June 2020.
- 21. Five days Faculty Development Program on “AI and its Applications”** organized by EduxLabs, 18th to 22nd May 2020.
- 22. Three day National Level FDP on “Online College Management & Online Content Creation Tools”,** Lala Lajpat Rai College of Commerce and Economics, 30th April to 2nd May 2020.
- 23. One week Short Term Training Programme through ICT mode on “Development of Laboratory Instruction and Manual”,** National Institute of Technical Teacher’s Training and Research, Kolkata and Sri Sivani College of Engineering, AP, Dt. : 04th to 08th February 2019.
- 24. One week Short Term Training Programme through ICT mode on “Problem Based Learning”,** National Institute of Technical Teacher’s Training and Research, Kolkata and Sri Sivani College of Engineering, AP, Dt. : 11th to 15th February 2019.
- 25. One week Short Term Training Programme through ICT mode on “Introduction to Network Security”,** National Institute of Technical Teacher’s Training and Research, Kolkata and Sri Sivani College of Engineering, AP, Dt. : 03rd to 07th December 2018.
- 26. One week Short Term Training Programme through ICT mode on “Organizational Behaviour”,** National Institute of Technical Teacher’s Training and Research, Kolkata and Sri Sivani College of Engineering, AP, Dt. : 12th to 16th November 2018.

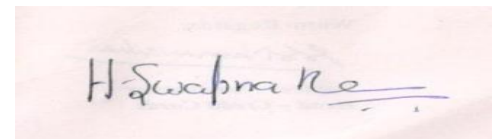
- 27. Two Day Instructional Workshop on “Python Programming”**, Department of Computer Science & Engineering, University College of Engineering Vizianagaram on 1st and 2nd July, 2017.
- 28. Two Day National Workshop on “Fog Computing & Internet of Things”**, Department of Computer Science & Engineering, University College of Engineering Vizianagaram on 28th and 29th March, 2017.
- 29. One week Faculty Development Program on “Analytics with R”**, Department of CSE & IT, AITAM, Tekkali, Dt:20th to 25th October, 2016.
- 30. Three day National workshop on “Recent Trends & Implications of Image Processing (RTIIP-2k16)”**, Department of Electronics and Communication Engineering, Sri Sivani College of Engineering on 28th,29th and 30th July 2016.
- 31. Ten Day Faculty Development Program on “Data Mining (DM-2K16)”**, in association with Department of CSE and National Institute of Technology, Warangal from 7th to 16th May 2016, Sri Sivani College of Engineering.
- 32. Three day National Level FDP on “Outcome Based Education (OBE-2015)”**, Department of Computer Science & Engineering, Sri Sivani College of Engineering on 3rd,4th and 5th December 2015.
- 33. Three day National Level Workshop on “Advances in Image Processing and Visualization Techniques (AIPVT-2K15)”**, Department of CSE & ECE, Sri Sivani College of Engineering on 30th ,31st and 1st November 2015.
- 34. One day Workshop on “BIG Data Analytics on Cloud (BAC-2015)”**, Department of Computer Science & Engineering, Sri Sivani College of Engineering on 17th July 2015.
- 35. Two day Seminar on “Twenty First Century, the dawn of Digital Era: Pedagogical Issues of Technical Teachers”**, under TEQIP Phase-II organized by ISTE, AITAM, Tekkali, on 15th & 16th November, 2014.
- 36. One day Workshop on “Quality Improvement Programme”**, Sri Sivani College of Engineering on 3rd May, 2013.
- 37. Two day National Workshop on “Emerging Research Trends in Data Mining for Bioinformatics”**, Department of Computer Science & System Engineering, Andhra University, Visakhapatnam on 20th and 21st December, 2013

38. Two day National Seminar on “Biologically Inspired Computing and its Applications”, Department of Computer Science & Engineering, Sri Sivani College of Engineering on 22nd and 23rd November, 2013.

39. One day National Level Workshop on “Recent Trends and Research Issues in Modern Computer Networks (RTRI-MCN-2012)”, Department of Computer Science & Engineering, Sri Sivani College of Engineering on 9th August 2012.

Other Achievements:

- **Reviewer** for 2nd and 3rd International Conference on Computational Intelligence in Pattern Recognition, Institute of Engineering and Management Group, Kolkata, India
- **Reviewer** of the Bulletin of the Polish Academy of Sciences: Technical Sciences, IEEE Access, Evolutionary Intelligence.
- **Ratified as Assistant Professor** from JNTU, Kakinada in 2012
- **Appreciation Letter** from **Spoken Tutorial Project, IIT Bombay**, for organizing Software Training workshops at Sri Sivani College of Engineering, Srikakulam
- Qualified in **APSET (“Andhra pradeh State Eligibility Test for Assistant professor/Lectureship”)** examination.
- Completed C test organized at Sri Sivani College of Engineering by **Spoken Tutorial Project, IIT Bombay**, funded by National Mission on Education through ICT, MHRD, Govt., of India
- Second Topper and Silver Medalist in M.Tech
- University Topper at the Graduation level

A photograph of a handwritten signature in blue ink on a light-colored background. The signature reads "H. Swapna Reddy" with a horizontal line underneath the name.

Signature