

**CURRICULUM VITAE****Dr. Sasanko Sekhar Gantayat****Contact No.:** +91 8985757724, +91 8176947201**E – Mail :** [sgantayat@hotmail.com](mailto:sgantayat@hotmail.com), [sgantayat67@gmail.com](mailto:sgantayat67@gmail.com)**Teaching & Research Experience: 32+ years.****Academic Qualification**

| Qualification     | Board/ University                  | Specialization                                                             | Year of Passing | Div./Grade    |
|-------------------|------------------------------------|----------------------------------------------------------------------------|-----------------|---------------|
| M.Tech. (CSE)     | JNTUK, Kakinada, AP                | Computer Science & Engg.                                                   | 2016            | First         |
| Ph.D. (Comp Sc)   | Berhampur University, Odisha       | Fuzzy Sets, Rough Sets, List Theory, Knowledge Representation              | 2008            | Awarded       |
| M.Sc. (Comp Sc)   | Annamalai University, Tamilnadu    | Multimedia, AI & Neural Networks, Network Security                         | 2005            | First         |
| A.M.I.E.(I) (ECE) | Institute of Engineers(I), Kolkata | Computer Engg, Computer Programming & Num. Analysis, Control Systems Engg. | 1993            | Second        |
| PGDCSA            | Berhampur University, Odisha       | Computer Science & Applications                                            | 1991            | First         |
| M.Sc. (Maths)     | Utkal University, Odisha           | Operations Research, FORTRAN IV Programming                                | 1988            | First         |
| B.Sc. (Honors)    | Berhampur University, Odisha       | Maths (Hons)                                                               | 1986            | First/ Distn. |
| I. Sc.            | Berhampur University, Odisha       | Maths, Phy, Chem, Biology                                                  | 1984            | Second        |
| H.S.C.            | Board of Sec. Education, Odisha    | Maths (Opt), EPC (Ext-Opt)                                                 | 1982            | Second        |

**Experience (Teaching)**

| Institute                                                                       | Designation & Department                                                  | Service Dates           | Years of Service | Branches Taught                 |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------|------------------|---------------------------------|
| SR University, Warangal, Telangana                                              | Associate Professor, School of Computer Science & AI                      | 05.08.2024 - Continuing | 1.6 year+        | B. Tech. (CSE)                  |
| KLEF Deemed to be University, Vijayawada, Andhra Pradesh                        | Associate Professor, Computer Science & Engineering (Hons)                | 24.03.2023 - 02.08.2024 | 15 Months        | B.Tech.(CSE)                    |
| Gandhi Institute For Technology (A), Bhubaneswar, Odisha                        | Professor, Computer Science & Engineering & Coordinator-MCA               | 29.06.2022 - 10.03.2023 | 8 Months         | B.Tech.(CSE), M.Tech., MCA      |
| GMR Institute of Technology (A), Rajam, Andhra Pradesh                          | Associate Professor, Computer Science & Engineering                       | 02.01.2012 - 18.06.2022 | 10.6 Years       | B.Tech., M.Tech.                |
| Gandhi Institute of Engineering & Technology, Gunupur, Odisha (GIET University) | Professor & Asst. HoD, Information Technology & Coordinator, M.Tech.(CSE) | 24.07.2004 - 31.12.2011 | 7.5 Years        | MCA, MBA, B.Tech.(CSE), M.Tech. |
| Hi-Tech Institute of Information Technology, Jeypore, Odisha                    | Vice-Principal, Mathematics & Computer Science                            | 01.10.2001 - 22.07.2004 | 2.8 Years        | BIT, MCA                        |
| Gayatri Institute of Computer & Management Studies, Gunupur, Odisha             | Lecturer, Maths & Computer Science                                        | 01.11.2000 - 30.09.2001 | 11 Months        | BCA, MCA                        |
| Balimela College of Science & Technology, Balimela, Odisha                      | Lecturer, Mathematics                                                     | 09.10.1992 - 30.10.2000 | 8 Years          | B.Sc., B.Com.                   |

**Subject Areas of Interests:**

Fuzzy Sets and Systems, Rough Set Theory and Knowledge Representation, Soft Sets, List Theory and Applications, Soft Computing Techniques, Artificial Intelligence, Machine Learning, Data Science, Social Network Analysis, Graph Theory, Systems Simulation & Modeling, Operations Research, Natural Language Processing

**Other Experience:**

- Guest Faculty cum Programmer, Ashoka Computers (BDPS), Jeypore, Koraput (Odisha) from March 1993 to 2001.
- Councilor, IGNOU Study Centre (2110), V. Deb College, Jeypore, Dist. Koraput (Odisha).

**My Research Works:**

- **Ph.D. Thesis: “Some Applications of Fuzzy Concepts in Computer Science”**  
Guide: Dr. B. K. Tripathy, Reader, Dept. of Computer Science, Berhampur University, Berhampur (Odisha), currently Senior Professor & Dean, School of Information Technology & Engineering, VIT, Vellore (T.N.). (Awarded Vide Notification No. 5144/BU/Exam.Conf./Unit-II Dated. 6th Nov. 2008)
- **M.Tech. Thesis: “Coverage Analysis of Object-Oriented Programs”**  
Guide: Dr. S. Prasad, Professor, GITAM University, Visakhapatnam (AP), 2016.

**Doctoral & Research Supervision****Guided: M.Tech-10, MCA -15, BTech-20****Ph.D. Completed(02)**

- **University:** Centurion University of Technology & Management (CUTM), Bhubaneswar, Odisha  
**Topic:** *Expert System Development for Missing data through Soft Computing Techniques*  
**Research Scholar:** Dr. Bhavani Shankar Panda (Awarded in September 2017, vide Notification No. CUTM/Exam/03/2017 Date. 25.09.2017)
- **University:** GIET University, Gunupur, Odisha  
**Topic:** *Development of Covert Communication Approaches Maintaining Fair Tradeoff Among Diametrically Opposed Metrics and Solving the Boundary Issues*  
**Research Scholar:** Mrs. Monalisa Sahu (Awarded in December 2023)

**PDF Continuing (05)****Ph.D. Continuing(16)**

- A Hybrid Federated ML model for Risk Analysis of Asthma Patients
- Automated Lung Cancer Detection and Diagnosis from CT Images using Deep Neural Architecture
- Explainable Deep Learning Models for Medical diagnosis of Parkinson’s Disease
- AI- powered Data-Driven Cybersecurity Techniques: Boosting Threat Identification and Reaction
- Multi-Modal Deep Learning Framework for Rare Kidney Disease Detection: Integration of Focal Segmental Glomerulosclerosis (FSGS) Diagnosis, Progression Prediction, Treatment Response Analysis, and Patient Risk Stratification
- A Fusion of NLP & LLM for real-Time sentiment Detection in Crisis Communication on Twitter
- Plant Disease Detection Using Image Processing and Machine Learning
- Development of a hybrid federated machine learning Algorithm for Risk prediction and management in Asthma Patients
- Leveraging Artificial Intelligence for Early Detection of Depression, Stress and Anxiety through Social Media Text: A Novel Approach to Mental Health Monitoring
- Advancing Agricultural Yield Prediction through Deep Learning and Explainable Multi-Modal Data Integration: Towards Sustainable and Intelligent Crop Forecasting,
- Multi-Modal Stress and Anxiety Detection through Social Media Using Text and Visual Features: A Deep Learning Approach with Metaheuristic Fine-Tuning
- Predicting Consumer Purchase Intentions Using AI-Enhanced Behavioral Analytics and Psychographics

- Spatio-Temporal Explainable AI Framework for Multi-Modal Traffic Anomaly Detection and Severity Assessment: Towards Real-Time Intelligent Transportation Systems
- AI-Based Human Brain Wave Analysis for Neurodegenerative Disease Detection Using Deep Learning
- Security and Privacy for Large Language Models
- AI-Driven Cloud Architecture for Agricultural Digital Marketplaces

## Competitive Research Grants

### Completed

- Co-Investigator, “*Computer Simulation and Modeling of Microstructures of Electro-Deposited Iron and Studies on Fractal Images*” from January 2007 to January 2009. [File No. 8023/RID/NPROJ/RPS-74/2005-06 (Revalidated 2006-07) Dtd. 10.10.2006, Cost: Rs. 8.7L] Funded by **AICTE-RPS**. (Gandhi Institute of Engineering & Technology, Gunupur, Odisha (GIET University))
- Co-Principal Investigator, “*Design and Development of Prototype wearable Spectacle Device to get Audio/Speech from Image Documents and Moving Text*”, from July 2017 to March 2022. [File No. SEED/TIDE/158/2016 06<sup>th</sup> January 2017, Cost: Rs.34.67L] Funded by **DST-TIDE** (SEED Division) (GMR Institute of Technology (Autonomous), Rajam, Andhra Pradesh)

### Submitted (GMR Institute of Technology (Autonomous), Rajam, Andhra Pradesh)

- Principal Investigator, “*Classification and Prediction of Crop Production on the Weather Condition using Rough Sets and Multi-variate Multi-label Regression Model*”, **SERB-CRG** [File Number: CRG/2021/007310, 17 March 2021, Cost: Rs. 27.11L]
- Principal Investigator, “*Development of an Algorithm for Identification and Retrieval of Missing Information from the Data set using Intelligent Computing*”, **SERB-MATRICES** [File Number: MTR/2017/000671, 29 July 2017, Cost: Rs. 6L]
- Principal Investigator, “*Analysis of Intuitionistic Fuzzy Sets over the Fuzzy and Intuitionistic Fuzzy Complex Numbers for Knowledge Representation*”, **SERB-MATRICES** [File Number: MTR/2018/001265, 10 April 2018, Cost: Rs. 6L]

### Project Works Carried out

- “*Generation of Daily Highlight Report for MIS Department of M & R Complex, NALCO, Damonjodi*” using UNIFY/ACCELL under UNIX environment at NALCO, Damonjodi (Koraput) in August – September 1991 for PGDCSA Course.
- “*Implementation of Similarity Relation in Fuzzy database using Oracle*” for M.Sc. (Comp. Science).

### Research Identifiers

|                  |                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Web of Science   | <a href="https://www.webofscience.com/wos/author/record/J-2726-2019">https://www.webofscience.com/wos/author/record/J-2726-2019</a>                 |
| Scopus Author ID | <a href="https://www.scopus.com/authid/detail.uri?authorId=6506951576">https://www.scopus.com/authid/detail.uri?authorId=6506951576</a>             |
| Publons          | <a href="https://publons.com/researcher/1669250/sasanko-sekhar-gantayat">https://publons.com/researcher/1669250/sasanko-sekhar-gantayat</a>         |
| OrcidID          | <a href="https://orcid.org/0000-0001-5518-7026">https://orcid.org/0000-0001-5518-7026</a>                                                           |
| Google Scholar   | <a href="https://scholar.google.co.in/citations?hl=en&amp;user=D_gMYx4AAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=D_gMYx4AAAAJ</a> |
| Semantic Scholar | <a href="https://www.semanticscholar.org/author/S.-S.-Gantayat/145164609">https://www.semanticscholar.org/author/S.-S.-Gantayat/145164609</a>       |
| DBLP             | <a href="https://dblp.org/pid/46/3549.html">https://dblp.org/pid/46/3549.html</a>                                                                   |
| Researcher ID    | <a href="http://www.researcherid.com/rid/B-1120-2016">http://www.researcherid.com/rid/B-1120-2016</a>                                               |
| Research gate    | <a href="https://www.researchgate.net/profile/Sasanko-Gantayat">https://www.researchgate.net/profile/Sasanko-Gantayat</a>                           |
| Mendeley         | <a href="https://www.mendeley.com/profiles/sasanko-gantayat/">https://www.mendeley.com/profiles/sasanko-gantayat/</a>                               |
| E-Vidwan         | <a href="https://vidwan.inflibnet.ac.in/profile/234656">https://vidwan.inflibnet.ac.in/profile/234656</a>                                           |
| Open Review      | <a href="https://openreview.net/profile?id=~Sasanko_Sekhar_Gantayat1">https://openreview.net/profile?id=~Sasanko_Sekhar_Gantayat1</a>               |
| LinkedIn         | <a href="https://www.linkedin.com/in/sasanko-sekhar-gantayat-6a64305/">https://www.linkedin.com/in/sasanko-sekhar-gantayat-6a64305/</a>             |

## Academic Achievement/Awards

- Two published papers have been selected by **ACM** as Archival Papers for '**Portal**'.
- Awarded "**Best Researcher**" in International Scientist Award on Engineering, Science and Medicine by VDGGOOD Professional Association, Chennai on 14-15, September 2019 at Chennai, India.
- Awarded "**Certificate of Reviewing**" by Elsevier for reviewing 22 articles in Information Sciences since 2009 in March 2019.
- **Ratified** as Assistant Professor from JNTUK, Kakinada (AP) in 2016
- Selected as **Research Guide** for JNTUK, Kakinada (AP) in Computer Science and Engineering.
- **5th Position** in Math (Hons) at Berhampur University in 1986.
- **2nd Position** in PGDCSA at Berhampur University in 1991.

## Membership of Professional Bodies

- **Member**
  - IEEE (M93112715)
  - IUCEE(IUCEEIM67)
  - Institute of Engineers (I) (M-142901-3)
  - ACM -Computer Science Teachers Association (CSTA), (Membership No -2143394)
  - Academy & Industry Research Collaboration Center (AIRCC), India. (M-128740)
  - International Association of Engineers (IAENG)(M-114009)
- **Life Member**
  - Indian Society for Technical Education (ISTE) (LM-66841)
  - Orissa Information Technology Society (OITS), Odisha
  - Indian Mathematical Society (IMS) (L-2010108/G-10-097)
  - Systems Society of India (SSI) (LM-31202)
  - Indian Society of Industrial and Applied Mathematics (ISIAM)
  - The World Scientific and Engineering Academy and Society (WSEAS)
  - International Rough Set Society (IRSS)
  - Indian Association of Mathematics Teachers (IAMT)
- **Senior Member**
  - Computer Society of India (CSI) (SM-01153414)
  - International Association of Computer Science and Information Technology (IACSIT) (SM-80339677)
- **Professional Member**
  - ACM, Membership No:1476649 (Client No. 2143394)
  - Institute for Engineering Research and Publication (IFERP)(PMIN90521378)
- **Society Member**
  - International Society of Computer Science of "International Organization of Scientific Research and Development (IOSRD)" (S201812024)
- **Registered Teacher**
  - Berhampur University (Regn. No. 6/2000)
  - Biju Patnaik University of Technology, Odisha (Regn No. T081721002)

## Editorial Board Member:

- "American Journal of Database Theory and Application (USA)", Scientific & Academic Publishing (USA).

## International Academic Service & Visibility

### Reviewer (International Journals)

- Information Sciences (Elsevier-USA) since 2009.
- American Journal of Data Mining and Knowledge Discovery (AJDMKD), USA.
- WSES Journals since 2011.
- International Journal of Modeling and Optimization (IJMO), Singapore, since 2012.

- American Journal of Intelligent Systems, USA.
- American Journal of Computer Science and Engineering, Scientific & Academic Publishing, USA.
- International Journal of Computer Network and Distributed Systems, Inderscience Publications, 2014
- International Journal of Advanced Intelligence Paradigms (IJAIP), Inderscience Publications.
- IGI Publications, USA (Book Chapters) Scopus Indexed.
- International Journal of Information Technology, Control and Automation (IJITCA), airccse.org
- Advances in Science, Technology and Engineering Systems Journal (ASTES Journal)
- International Journal on Cryptography and Information Security (IJCIS), Wireilla Scientific Publications, Australia, ISSN:1839-8626
- Journals of Scientific & Academic Publishing, USA.
- Int. J. of Embedded Systems (IJES), Inder Science, July 2023, Indexed in Scopus
- Connection Science, Taylor and Francis, UK, July 2023, Indexed in SCI

### **International Conferences Session Chair**

- The Second International Conference on Advances in Computing and Information Technology (ACITY-2012), 13th ~15th July 2012, Chennai, India.
- The Second International Conference on Computational Science, Engineering and Information Technology (CCSEIT-2012), 26th~28th October 2012, Coimbatore, India.

### **Reviewer & Technical Programme Committee Member (International Conferences)**

- International Symposium on Intelligent Informatics (ISI'12), 4th ~ 5th August 2012, Chennai, India.
- International Symposium on Intelligent Informatics (ISI'13), August 2013, Mysore, India
- Third International Symposium on Intelligent Informatics (ISI'14), 24th~27th September 2014, Delhi, India.
- The Third International Conference on Intelligent Systems and Applications (INTELLI 2014), 22nd ~ 26th June 2014 - Seville, Spain, IARIA (International Academy, Research and Industry Association).
- The Fourth International Conference on Intelligent Systems and Applications, INTELLI 2016
- Second International Conference on Networks and Communications (NC 2014), 12nd ~13th July, Sydney, Australia.
- Third International Conference on Digital Image Processing and Vision (ICDIP-2014), 12nd ~13th July 2014, Sydney, Australia.
- IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE2016), Penang, Malaysia, 29th ~ 31st May 2016.
- IEEE International Conference on Emerging Technologies and Innovative Business Practices for the Transformation of Societies (IEEE EmergiTech 2016), 1<sup>st</sup> ~ 6<sup>th</sup> August. 2016, Mauritius.
- International Symposium on Computational Intelligence & Applications 2017 (ISCIA2017), Asia Simulation Conference (AsiaSim-2017), Malaysia
- International Conference on Advances in Computing, Communications and Informatics (ICACCI-17 & 18), Manipal, India, 2017 and 2018.
- IEEE Conference on Applications, Information and Network Security (AINS), 2017 and 2018, ICW-TELKOMNIKA 2018, EECSI 2018, ICEECC 2017, IAPE'19, ISI-2017
- ICCISN'2017, IINTEC'17, AIECon 2018, SCS-NSS 2018, WSCAR 2018, ICITeS'2018, ICEECC2018
- ICFIR2019 (International Conference on Fourth Generation Industrial Revolution 2019)
- International Conference on Metaheuristics in Software Engineering and its applications (METASOFT-2022), Department of Computer Science and Engineering, Faculty of Engineering and Technology (ITER), Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, ODISHA, India, 10-12 March, 2022.
- 4th International Conference on Computational Intelligence in Pattern Recognition (CIPR-2022), Indian Institute of Engineering Science and Technology, Howrah, West Bengal India, 23rd & 24th April 2022.
- IEEE Second International Conference on Computer Science, Engineering and Applications (ICCSEA-2022), GIET University, Gunupur-765022, Odisha, India, 8th September 2022.
- Reviewer, IEEE Symposium on Computers & Informatics (ISCI 2023), 4-15 October 2023, Shah Alam, Malaysia (Hybrid Conference) July 2023. Indexed in IEEE Xplore, Scopus

- International Conference on Advances in Distributed Computing and Machine Learning (ICADCML-2026), NIT Jamshedpur, India
- International Conference on Computational Intelligence and Autonomous Systems (ICIAS) 2025
- International Conference on Digital Technology and Engineering (ICDTE-2025) from 16th to 17th October 2025, Dept. of Computer Science and Engineering, RV Institute of Technology and Management, Bengaluru.
- ISCI2025.
- 1st International Conference on Green Artificial Intelligence and Industrial Applications (GreenAI-2025)
- International Conference on Devices for Integrated Circuit (DevIC 2025)
- 6th International Conference on Innovative Trends in Information Technology 2025
- MIDAS-2025 Centurion University of Technology and Management, Paralakhemundi, Odisha-761211, India
- 1st International Conference on Machine Intelligence and Data Science. 2024
- SCOPES2024- Signal Processing Communication Power and Embedded System 2024

### Professional/ Co-Curricular Activities

- External Examiner, Ph.D. Thesis, Anna University-Chennai, VIT University-Vellore (TN), Berhampur University-Odisha, Accra Institute of Technology (AIT), Accra- North-Ghana
- External Member, General Test Committee, M.S. and Ph.D., School of ITE & CSE, VIT University, Vellore (TN) from 2012.
- External Examiner & Question Paper setter of different Universities/Colleges.
- Examiner & External Examiner of MCA, BCA & B.E./B.Tech Courses in different Colleges and Universities.
- Organizing Member of different Conferences, Workshops, and Seminars at the college level.
- Member, Central Examination Committee & Library Committee, GIET(now GIET University), Gunupur, Odisha.
- Coordinator, Model Presentation, STEPCONE-2013.
- Exam-In-Charge of different colleges/institutions.

### Administrative Works:

- **Coordinator**
  - MCA Department
  - BoS (Department)
  - Department Research
  - Department Term Paper
  - Course Coordinator
  - Department Timetables
  - Department Criteria for NBA/NAAC
  - M.Tech.
- **Member**
  - Internal BoS, CSE & IT Department
  - Course Development (Autonomous)
- Mentor
- Academic Monitoring Committee Secretary
- Examination in Charge in different Institutions
- R & D Incharge of the Department
- Assistant Dean-Admissions

### Personal Details

**Permanent Address:** House No.4, Lotus Garden, Near Chotta Masjid, Begunia Lane-5, Jadupur, Bhubaneswar,753019, Dist. Khurda (Odisha)

- Father's Name : Late Padma Charan Gantayat
- Mother's Name: Late Padmalaya Gantayat
- Date of Birth : 04-February 1967
- Gender : Male
- Marital Status : Married
- Religion : Hindu
- PAN No. : AMGPG1272N
- AADHAR No. : 220404175865
- Passport No. : M5157745

Date: 24 February 2026

Place:

**(Dr. Sasanko Sekhar Gantayat)**

## DETAILS OF PATENTS AND PUBLICATIONS

### • **Innovation & Intellectual Property**

#### **Indian Patent:**

- Title: Risk Measures and Management System for Financial Networks Using Regression Analysis  
Application Number: 202021033804      Publication Date (U/S 11A): 28/08/2020  
URL: <https://iprsearch.ipindia.gov.in/PublicSearch/PublicationSearch/ApplicationStatus>
- Title: Integrated Vehicle Roof Solar Panel System for Enhanced Electric Vehicle Energy Efficiency  
Application Number: 202441068091      Publication Date (U/S 11A): 13/09/2024  
URL: <https://iprsearch.ipindia.gov.in/PublicSearch/PublicationSearch/ApplicationStatus>
- Title: A Framework for Ethical Artificial Intelligence with Integrated User Privacy Preservation and Accountability Mechanisms in Social Media Networks  
Patent No.: 202541075082      Published: 22/08/2025      Page#:81080  
Month of Publication with Link: August 2025  
[https://drive.google.com/file/d/1lEjzOyHYYbcAVqUIOjVnyCSySj2\\_mxFL/view?usp=sharing](https://drive.google.com/file/d/1lEjzOyHYYbcAVqUIOjVnyCSySj2_mxFL/view?usp=sharing)
- Title: Multilayer Threat Defense Framework with Trainable Prompt Firewall for Securing Large Language Models  
Patent No.: 02541116022 A      Published: 12-12-2025      Page#: 125630
- Title: A Context-Aware Natural Language Processing Framework for Enhanced Analysis of Crisis Communication  
Patent No.: 202541053576 A      Published: 13-06-2025      Page#: 57369
- Title: An Advanced Deep Learning Architecture for Multi-Scale Feature Extraction and Enhanced Leaf Disease Detection Across Diverse Agricultural Conditions  
Patent No.: 202541113128 A      Published: 05-12-2025      Page#: 121750
- Title: A Hybrid Machine Learning-Deep Learning Framework Integrating Domain-Driven and Hierarchical Features for Robust and Generalizable Leaf Disease Classification  
Patent No.: 202541113203 A      Published: 05-12-2025      Page#: 121729  
Title: A System for Empowering Farmers Through Digital Markets and Cloud Innovation  
Patent No.: 202541090642 A      Published: 24/10/2025      Page#: 121729

#### • **Indian Copyright:**

Title: Python for Coding the Future of Medicine in Healthcare  
Field of Invention: Computer Science      Diary No.: 19626/2022-CO/L (63384)  
Class of Work Type: Literary/Dramatic      Date of Filing : 17/09/2022  
RoC No. L-120401/2022      Date: **30/12/2022**      Application Status: Registered  
URL: <https://copyright.gov.in/frmStatusGenUser.aspx>

#### • **UK Design Patent:**

Title: AI Based Heart Disease Prediction Device  
Design number: 6324120  
Application Type: Design      Grant Date: 15 November 2023  
Registration Date: 04 November 2023      Application Status: Granted  
International Design Classification:  
Version: 14-2023      Class: 24 Medical and Laboratory Equipment  
Subclass: 01 Apparatus and Equipment for Doctors, Hospitals and Laboratories  
URL: <https://www.registered-design.service.gov.uk/find/6324120>

#### **Publications in Book Chapter:**

- **S. S. Gantayat** and B. K. Tripathy, "***Application of Functional Approach to Lists for Development of Relational Model Databases and Petri Net Analysis***", *Global Trends in Knowledge Representation and Computational Intelligence*, Published by IGI Global, USA, Edited by B. K. Tripathy and D. P. Acharjya, VIT University, Vellore, Tamil Nadu, INDIA, 2014. (**Chapter No.15**) DOI:<https://dx.doi.org/10.4018/978-1-4666-4936-1.ch015>, ISBN13: 9781466649361 (Indexed in **Scopus** and **WoS**)

- **Gantayat, S.S.**, Pimple, K.M. and Sree, P.K., "**IoT Type-2 Fuzzy Logic Implementation**", In *Advances in Fuzzy-Based Internet of Medical Things (IoMT)*, Editors: S.P. Yadav, S. Yadav, P.R. Chelliah and V.H.C. Albuquerque, Wiley-Scrivener, **Chapter 12**, pp. 179-194, March 2024. DOI: <https://doi.org/10.1002/9781394242252.ch12>,  
**Weblink:** <https://onlinelibrary.wiley.com/doi/10.1002/9781394242252.ch12>,  
<https://onlinelibrary.wiley.com/doi/book/10.1002/9781394242252>  
ISBN: 978-1-394-24223-8 (Indexed in **Scopus**)
- Kiran Mysa, **Gantayat, S.S.**, "AI-Based Energy-Efficient Edge Computing in IoT-enabled Smart Agriculture and Renewable Energy Infrastructures." (**submitted**)
- Kiran Mysa, **Gantayat, S.S.**, "Cloud Computing for Geo-Environmental Hazard Analysis: AI and IOT Applications in Agriculture and Market Resilience", *New Technologies for Geo-Environmental Hazards / Advanced Computing, IoT, and AI for Risk Mitigation (WILEY-ISTE)*. (**submitted**)
- Kiran Mysa, **Gantayat, S.S.**, "Cloud Computing and AI-Enabled Data Analytics", to be published by Springer-CAIDA-2026 (Paper Number: 2), Book: "AI-Driven Cloud Analytics for Smart Agriculture and Digital Market Ecosystems" (**submitted**)
- Kiran Mysa, **Gantayat, S.S.**, "Precision Agriculture 2.0: Integrating UAV Technology with Cloud Computing for Smarter Farming, Enhanced Productivity, and Data-Driven Agricultural Markets", Book: *Advancing Agricultural Productivity through Integrating UAV and Drone Technology in Smart Farming Practice*, Jenny Stanford Publication (**submitted**)

#### Publications of Books:

- **Principles of Soft Computing Techniques (Paperback)**, Authors: Dr. Shivalal Mewada, Dr. Anil Kumar Bisht, **Dr. Sasanko Sekhar Gantayat**, Dr. Binda M B., ISBN: 978-93-5625-306-3, Scientific International Publications (SIP), Tamilnadu, India. 2022 (**Book**)  
URL: <https://www.flipkart.com/principles-soft-computing-techniques/p/itma5a1c8c93ce09>
- **Computational Intelligence - AI Modern Approach (Paperback)**, Authors: Dr. S. Raviraja, **Dr. Sasanko Sekhar Gantayat**, Mr. Ronald Chiwariro, Dr. Kavitha H, ISBN: 978-93-5625-282-0, Scientific International Publications (SIP), Tamilnadu, India. 2022 (**Book**)  
URL: <https://sipinternationalpublishers.com/product-detail.php?PID=NDc5>
- **Internet of Things**, Authors: Mr.Vengalapudi Appalakonda, Prof. Sangareddy B. Kurtakoti, Dr. Sasanko Sekhar Gantayat, Mrs. Anitha Kumari R D, ISBN: 978-93-6132-958-6, Scientific International Publications (SIP), Tamilnadu, India. February 2024 (**Book**)  
URL: <https://sipinternationalpublishers.com/product-detail.php?PID=MjIwMQ==>
- **Futuristic Trends in Computing Technologies and Data Sciences, Vol. 3, Book 7**, (Series Code: IIPV3EBS11\_G37), Dr. Ravindra Namdeorao Jogekar, Dr. Sasanko Sekhar Gantayat, Dr. R. Sasikumar, Mr. Pagalla Bhavani Shankar, Iterative International Publishers (IIP), India/USA, e-ISBN: 978-93-6252-212-2, April 2024 URL: [www.iipseries.org](http://www.iipseries.org) (**Book**)

#### Publications in International Journals:

##### SCI/WoS

- B. K. Tripathy & **S. S. Gantayat**, "**Some More Properties of Lists and Fuzzy Lists**", *Information Sciences – Informatics and Computer Science: An International Journal (USA)*, Vol.166, issues 1-4, pp.167-179, 2004. ISSN: 0020-0255 (Included in ACM Portal as an archival).  
(Indexed in **Scopus & SCI/WoS**) (IF: 6.8) Q1  
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- Monalisa Sahu, Neelamadhab Padhi, **Sasanko Sekhar Gantayat**, Aditya Kumar Sahu, **“Shadow image based reversible data hiding using addition and subtraction logic on the LSB planes”**, Sensing and Imaging, Vol. 22, Issue.7, Springer Nature, February 2021 (ISSN: 1557-2064) (Indexed in: **Scopus and WoS**) (Impact Factor: 2.0) Q3  
DOI: <https://doi.org/10.1007/s11220-020-00328-w>  
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- I. Sundara Siva Rao, **Sasanko Sekhar Gantayat**, **“Quantum-Classical Hybrid Models for Multi-Class Arrhythmia Detection from ECG Signals”**, IEEE Access. January 2026 (**SCIE-Q2**) Accepted

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- **S. S. Gantayat**, **“Development of TTS Engine for Indian Accent using Modified HMM Algorithm”**, International Journal on Informatics Visualization (JOIV), Vol. 2, No 2, pp.92-95, 2018. (e-ISSN: 2549-9904, ISSN:2549-9610), (Indexed in: **Scopus**) DOI: <http://dx.doi.org/10.30630/joiv.2.2.112> (Impact Factor: 1.06) Q4
- Sreerama Murthy V., P. Lakshmi Kumari & **Sasanko Sekhar Gantayat**, **“A prototype Model to Extract Text from Image Documents for Visually Impaired People”**, Journal of Computational and Theoretical Nanoscience, American Scientific Publication, Vol. 15, Numbers 6-7, pp. 2318-2323(6), June 2018. (ISSN No.: 1546-1963) (Indexed in: **Scopus**) (Impact Factor: 0.7) DOI: <https://doi.org/10.1166/jctn.2018.7461> Q4
- Sreerama Murthy V., **S. S. Gantayat** & Anil Kumar B., **“A Prototype Device to Extract Text from Images, Video and Document Files to Assist Visually Impaired People”**, Journal of Computational and Theoretical Nanoscience, American Scientific Publication, Vol. 15, No. 9-10, pp. 2969-2978(10), September 2018. (ISSN No.: 1546-1963) (Indexed in: **Scopus**) (Impact Factor: 0.7) DOI: <https://doi.org/10.1166/jctn.2018.7577> Q4
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- Uday Bhaskar Penta, B. S. Panda, **Sasanko Sekhar Gantayat**, **“Machine Learning Model for Identifying Phishing Websites”**, Shu ju cai ji yu chu li/Journal of Data Acquisition and Processing, Vol. 38 (1), March 2023 (ISSN: 1004-9037) (Indexed in: **Scopus**) (Impact Factor: 0.44) <https://sjcjycl.cn/DOI:10.5281/zenodo.7764722> Q4
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- Yogesh H. Bhosale, **Sasanko Sekhar Gantayat**, Kantilal Rane, T. Krishna Mohana, C. Ramya, Karpagavalli Shanmugasundaram, **AI-Driven Predictive Models for Early Detection of Periodontal Disease: A Data Management Approach in Clinical Dentistry**, Journal of Carcinogenesis, ISSN: 1477-3163, 2025; Vol 24: Issue 2s, pp 140-149. Link: <https://carcinogenesis.com/>
- M Priyanka, **Sasanko Sekhar Gantayat**, **“Systematic Review of Biometric Modalities and Fusion Strategies for Enhanced Multimodal Biometric Authentication”**, International Journal of Computer Network and Information Security (IJCNIS), 2026, (**Submitted**)

## Google Scholar, UGC & Other

- B. K. Tripathy & **S. S. Gantayat**, **“Rough Sets on Fuzzy Similarity Relations and Applications to Information Retrieval”**, International Journal of Fuzzy Systems and Rough Systems, Vol. 3, Issue-1, pp. 5-13, January-June 2010, ISSN: 0974-858X.

- S. K. Das, D.C. Panda, Nilambar Sethi & **S. S. Gantayat**, “**Inductive Learning of Complex Fuzzy Relation**”, *International Journal of Computer Science, Engineering, and Information Technology (IJCEIT)*, Vol.1, No.5, pp. 29 – 38, December 2011. ISSN: 2231-3605, e-ISSN: 2231-3117 DOI: <https://dx.doi.org/10.5121/ijcseit>
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- **S. S. Gantayat**, Srinivas Prasad & K. Koteswar Rao, “**An Empirical based Object-Oriented Coverage Analysis Using XML**”, *International Research Journal of Engineering and Technology (IRJET)*, Vol. 3, Issue. 9, pp.517-523, September 2016, (Indexed in Index Copernicus, Google Scholar, DRJI, IF: 4.45), e-ISSN: 2395-0056, p-ISSN: 2395-0072.
- B. S. Panda, **S. S. Gantayat** & Ashok Misra, “**A Comparative Study of Handling Missing Data in Student Data Analysis using Rough Set and Soft Set**”, *International Journal of Computer Science & Engineering Technology (IJCSET)*, Volume 8 Issue 06, pp. 195-204, May 2017. (Indexed in Index Copernicus, Google Scholar, DOAJ, Scirus, CiteULike-Springer) (ISSN: 2229-3345) (UGC Approved)
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- **S. S. Gantayat**, M. Vanitha & Saikumar Tara, “**Local and Global Histogram Matching for Enhancing Image Quality using Spatial Representation**”, *Journal of Critical Reviews (JCR)*, Vol. 7, Issue. 04, pp. 1757-1760, August 01, 2020 (ISSN-2394-5125) (Indexed in: **Scopus**) (Impact Factor: 0.6) DOI: 10.31838/jcr.07.04.289 <http://www.jcreview.com/?mno=116644>
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### Publications in National Conferences

- B. K. Tripathy & **S. S. Gantayat**, “**Rough Sets on Intuitionistic Fuzzy Approximation Space and Knowledge Representation**”, *Proceedings of “National Conference on Soft Computing Techniques in Engineering Applications (SCT-2006)”*, NIT Rourkela (India), pp. 319-326, 24th ~26th March 2006.
- B. K. Tripathy & **S. S. Gantayat**, “**Rough sets on Generalized Fuzzy Approximation Spaces**”-“*I International Conference on Multidisciplinary Information Sciences and Technologies (InSciT2006)*”, Mérida, Spain. (2006).

- B. K. Tripathy, **S. S. Gantayat** & D. Mohanty, "**Properties of Rough Sets on Fuzzy Approximation Spaces and Knowledge Representation**" – Proceedings of "National Conference on Recent Trends in Intelligent Computing (RTIC-2006)", KGEC, Kalyani (W.B.), India, pp. 1-8, 11th ~12th November 2006.
- **S. S. Gantayat**, "**Authentication of Information using Rough Sets on Fuzzy Similarity Relation**" – Proceedings of "National Conference on Information Security: Issues & Challenges (NCISIC-08)", Gandhi Institute of Engineering & Technology, Gunupur (Odisha), pp. 155-160, 19th ~20th January 2008.
- B. S. Panda, Rahuk Abhishek & **S. S. Gantayat**, "**Uncertainty Classification of Expert Systems - A Rough Set Approach**" – IJCA Proceedings "7<sup>th</sup> National Conference on Advancement of Technologies - Information Systems & Computer Networks (ISCON - 2012)", GLA University, Mathura (U.P.), India on March 3~4, 2012, Published by Foundation of Computer Science, New York, USA., Vol. ISCON, No.2, pp:12-15, May 2012., ISBN: 973-93-80867-87-0. <http://www.ijcaonline.org/proceedings/iscon/number2/6464-1011>
- K. L. Sumathy, M. Megala, **Sasanko Sekhar Gantayat**, B.V. RamaKrishna, "**Quantum Computing and Its Implications for Cryptography: Assessing the Security and Efficiency of Quantum Algorithms**", Nanotechnology Perceptions, Vol. 20 (S15), pp. 2749-2761, December 2024 (ISSN 1660-6795) (Indexed in: **Scopus**) (Impact Factor: 0.11) DOI : <https://doi.org/10.62441/nano-ntp.vi.4341> Q4

## Publications in International Conferences

### Springer

- B. K. Tripathy & **S. S. Gantayat**, "**Conceptual Application of List Theory to Data Structures**", *The Second International Conference on Advances in Computing and Information Technology (ACITY-2012)*, July 13~15, 2012, Chennai, India, in *Advances in Computing and Information Technology*, Vol-2, "Advances in Intelligent Systems and Computing, Series Ed.: Janus Kacprzyk", Series 177, pp 551-560, Springer-Verlag, Berlin, Germany, July 2012. ISSN: 2194-5357, **Indexed in Scopus and WoS**. DOI: [10.1007/978-3-642-31552-7\\_56](https://doi.org/10.1007/978-3-642-31552-7_56) (AIRCC)
- B. K. Tripathy & **S. S. Gantayat**, "**Some New Properties of Lists and a Framework of a List Theoretic Relation Model**", *The Second International Conference on Computational Science, Engineering and Information Technology (CCSEIT-2012)*, October 26~28, 2012, Avinashilingam University, Coimbatore, India. General Chairs: Nataraj Meghanathan & Michal Wozniak, pp. 165-170. Published in ACM International Conference Proceeding Series (ICPS), New York, USA, ACM Digital Library (Available online). **Scopus Indexed** and Published in **Springer**. <http://doi.acm.org/10.1145/2393216.2393244> (AIRCC)
- **S. S. Gantayat**, Ashok Misra & B. S. Panda, "**A Study of Incomplete Data - A Review**", *International Conference on Frontiers in Intelligent Computing: Theory and Applications - 2013, (FICTA-2013)*, 14 -16 November 2013, Bhubaneswar Engineering College, Bhubaneswar, Odisha, Published in *Advances in Intelligent Systems and Computing* 247, S.C. Satapathy, S.K. Udghata, and B.N. Biswal (eds.), FICTA 2013, Springer-Verlag, Switzerland, pp. 401-408, 2014. ISSN: 2194-5357, (**Indexed in Scopus and WoS**). DOI: [10.1007/978-3-319-02931-3\\_45](https://doi.org/10.1007/978-3-319-02931-3_45)
- B. S. Panda, **S. S. Gantayat** & A K Mishra, "**Rough Set Rule Based Technique For Retrieval Of Missing Data In Malaria Disease Diagnosis**", *International Conference on Computation Intelligence: Health and Disease (CIHD-2014)*, Institute of Bioinformatics and Computational Biology (IBCB), Andhra University, Visakhapatnam, AP, Published in Naresh Babu Muppalaneni, Vinit Kumar Gunjan (Editors) Springer Briefs in "Applied Sciences and Technology - Forensic and Medical Bioinformatics", Vol.6, pp-59-71, 27<sup>th</sup> -28<sup>th</sup> December 2014, **Scopus Indexed** and Published by **Springer-Verlag**, DOI: [10.1007/978-981-287-260-9-6](https://doi.org/10.1007/978-981-287-260-9-6)
- **S. S. Gantayat** and L. Swathi, "**Study of Algorithms and Methods on Emotion Detection from Facial Expressions - A Review from Past Research**", 6th International Conference on Information System Design and Intelligent Applications (INDIA-2019), Lendi Institute of Engineering and Technology, Visakhapatnam, India, 1<sup>st</sup>-2<sup>nd</sup> November 2019, (Code 249899) Published by Springer Science and Business Media Deutschland, GmbH in Springer Lecture Notes in Networks and Systems, Vol. 134, Pages 231 - 244, Suresh Chandra Satapathy et al. (Eds): "*Communication Software and Networks*", 486677\_1\_En, (Chapter 24) ISBN: 978-981-15-5396-7, DOI: [10.1007/978-981-15-5397-4\\_24](https://doi.org/10.1007/978-981-15-5397-4_24) (**Scopus Indexed**)

- **Gantayat, S.S.,** Aditya, V. (2022). “**Software Effort and Duration Estimation Using SVM and Logistic Regression**” In: Mohanty, M.N., Das, S., Ray, M., Patra, B. (eds) *Meta Heuristic Techniques in Software Engineering and Its Applications. METASOFT 2022, SOA University, Bhubaneswar, Odisha, Artificial Intelligence-Enhanced Software and Systems Engineering, vol 1.* Springer, Cham. (Chapter. 28), pp. 275–288, Print ISBN: 978-3-031-11712-1, Online ISBN: 978-3-031-11713-8, Published on: 18-October-2022 [https://doi.org/10.1007/978-3-031-11713-8\\_28](https://doi.org/10.1007/978-3-031-11713-8_28) [**Awarded as the Best Research Paper of the Session-I (Scopus Indexed)**]
- Padmaja Ragolu & **S. S. Gantayat,** “**An Efficient Scheme for Detecting MSER regions and Text Localization in Video**”, *IEEE 2<sup>nd</sup> International Conference on Communication and Electronics Systems (ICCES 2017)*, ISBN: 978-1-5090-5013-0, Vol. 2018-January, pp. 569-574, 19th-20th October 2017, PPG Institute of Technology, Coimbatore, India. **Scopus Indexed** and published in **IEEE-Xplore**. DOI: 10.1109/CESYS.2017.8321142
- L. Swathi, **S. S. Gantayat,** “**Facial Expression Recognition based on Emotion for Visually challenged People**”, *IEEE International Conference on Intelligent Computing and Sustainable System (ICICSS 2018)*, ISBN: 978-1-5386-4344-0, pp. 144-149, 20th-21st September 2018, Akshaya College of Engineering and Technology, Coimbatore, India. Published in **IEEE-Xplore**.
- Monalisa Sahu, Neelamadhab Padhy, **Sasanko Sekhar Gantayat** and Aditya Kumar Sahu, “**Performance Analysis of Various Image Steganography Techniques**”, *IEEE Second International Conference on Computer Science, Engineering and Applications (IEEE ICCSEA-2022)*, IEEE Conference Record No. 54677, 8th September 2022, Department of Computer Science and Engineering, GIET University, Gunupur-765022, Odisha, India. INSPEC Accession Number: 22239168, Date Added to IEEE Xplore: 07 November 2022, DOI: 10.1109/ICCSEA54677.2022.9936446 Published in **IEEE-Xplore**.
- Sreekha Uppuluri, **Gantayat, S.S.,** “**Enhancing Plant Leaf Disease Detection Using CNN Feature Learning and Machine Learning**”, *Proceedings of International Conference on Computational and Cognitive Systems Science (ICCCSS 2025)*, LNNS, Vol-1737, pp. 286-294 **Scopus (Springer) 02 January 2026**
- Kiran Mysa, **Gantayat, S.S.,** “**Transforming Agriculture: Integrating 1D, 2D, and Quantum Materials with Cloud-Enabled Digital Marketplaces for Sustainable Farm Innovation**”, Poster presentation at 5th International Conference on Recent Advances in Material Science and Computational Techniques (RAMSACT-2025), scheduled to take place on December 18-20, 2025, at Manipal University Jaipur.
- Karur Srinatha, **Gantayat, S.S.,** “**Hybrid Federated Machine Learning Model for Risk Analysis of Asthma Patients**” ICAES 2025 GCET - International Conference on Applied Physics, Engineering Innovations, and Sustainable Technologies (ICAES-2025) **IEEE Xplore-Scopus (Presented)**
- Deepa Varma, **Gantayat, S.S.,** Brojo Kishore Mishra, “**Two-Layer Input Filtering Framework for Large Language Model Security**” *IEEE IC-ICNS 2026 IEEE International Conference on Intelligent Computing, Networks and Security (IC-ICNS 2026)* **IEEE Xplore-Scopus (Submitted)**
- Kiran Mysa, **Gantayat, S.S.,** “**AI-Driven Cloud Analytics for Smart Agriculture and Digital Market Ecosystems**”, CAIDA-2026 (Cloud Computing and AI-Driven Data Analytics) **Scopus (Presented)**
- G Koppula, **Gantayat, S.S.,** “**Explainable and Multimodal Deep Learning for Parkinsons Disease Diagnosis and their Models Modalities and Clinical Integration: A Review**”, ICAAAI 2025 International Conference on Innovative Computing Technologies. **Scopus (Presented)**
- B Sumalatha, **Gantayat, S.S.,** “**Recent Trends And Challenges In Automated Detection And Staging Of Lung Cancer Using Deep Learning**”, 3rd International Conference on Algorithms In Advanced Artificial Intelligence (ICAAAI-2025) organized by the Department of Computer Science and Engineering, SRKR Engineering College (A), Bhimavaram, Andhra Pradesh from 11th to 13th December 2025. **Scopus (Presented)**
- Jyothi Rani, **Gantayat, S.S.,** “**Federated And Privacy-Aware Intelligence for Asthma Risk Prediction Techniques Challenges and Future Directions**”, 3rd International Conference on Algorithms In Advanced Artificial Intelligence (ICAAAI-2025) organized by the Department of Computer Science and Engineering, SRKR Engineering College (A), Bhimavaram, Andhra Pradesh from 11th to 13th December 2025. **Scopus (Presented)**

- Md Hafeez, **Gantayat, S.S.**, C Pattnaik, “Interpretability and Performance of Machine Learning Models in Breast Cancer Prediction: A Comparative Analysis”, 1st International Conference on Smart Innovation and Soft Computing 2026 (SISCCON2026) **Scopus (Submitted)**
- B. Sumalatha, **Gantayat, S.S.**, “Recent Trends and Challenges in Automated Detection and Staging of Lung Cancer Using Deep Learning”, IC3T 2025 **Scopus (Presented)**
- Kiran Mysa, **Gantayat, S.S.**, “Digital Market: AI-Powered Cloud Platforms for Transparent and Efficient Agricultural Markets in India”, The IEEE 2nd Asian Conference on Intelligent Technologies (ACOIT2025), Bharath Niketan Engineering College Theni, Tamil Nadu, India, pp. 275-279, ISBN: 979-8-3315-9420-6/25, doi:10.1109/ICSCN67106.2025.11308356 **Scopus (Published in IEEE-Xplore)**
- Md Hafeez, **Gantayat, S.S.**, C. Pattnaik, “Multimodal Data Fusion for Consumer Behavior Prediction using Multimodal Deep Learning Models”, 1st International Conference on Smart Innovation and Soft Computing 2026 **Scopus (Submitted)**
- Brijis Fathima, **Gantayat, S.S.**, “Enhancing Plant Leaf Disease Detection Using CNN Feature Learning and Machine Learning”, International Conference on Computational and Cognitive Systems Science (ICCCSS 2025), Paper ID: ICCCSS – 556 **Scopus (Presented)**
- Sunil Manohar Reddy K, **Gantayat, S.S.**, “Emotional Sentiment Analysis for Mental Health: Detecting Depression, Stress, and Anxiety from Social Media Data Using Advanced Natural Language Processing Models”, Eighth International Conference on Soft Computing and Signal Processing (ICSCSP-2025), Malla Reddy College of Engineering & Technology, Hyderabad, India **Scopus (Presented)**
- Brijis Fathima, **Gantayat, S.S.**, "Explainable Transformer Architectures for Multimodal Crop Yield Prediction: A Comprehensive Survey and the Louts Effect Transformer-Based Prototype Attention Network (LET-PAN)"- 5th International Conference on Cognitive & Intelligent Computing (ICCIC 2025), to be held from 12/12/2025 to 12/13/2025 at Vasavi College of Engineering, Hyderabad, Telangana. **Scopus (Presented)**
- U Sreekha, **Gantayat, S.S.**, “Comparative Analysis Of XAI-Enabled ML And NLP Approaches for Intelligent Cyber Threat Detection and Response”, 8th International Conference on Intelligent Computing and Communication (ICICC – 2025), CMR Technical Campus, Hyderabad, Telangana, India **Scopus (Presented)**
- K Srinatha, **Gantayat, S.S.**, “Hybrid Federated Machine Learning Model for Risk Analysis of Asthma Patients”, ICAES 2025 (Accepted)

*(Dr. Sasanko Sekhar Gantayat)*

**DETAILS OF WORKSHOPS/FDPS ATTENDED****Workshops Organized/Resource Person:**

- Resource Person, “*Latex Workshop*”, Department of CSE, GMR Institute of Technology, Rajam (AP), April 2013.
- Organized as Coordinator of Five-day National Online Faculty Development Program on “*Emerging Research Trends in Computer Science and Engineering (ERTCSE-2020)*” from 19<sup>th</sup> ~ 23<sup>rd</sup> October 2020 at Department of Computer Science and Engineering, GMR Institute of Technology, Rajam, Srikakulam Dist., Andhra Pradesh, India.
- Resource Person, Five Day online National Faculty Development Programme on “*Recent Trends in Big Data, Data Science and its Applications-(RTBDA-2021)*” from 05.06.2021 to 09.06.2021, delivered a talk on “Regression Models in Data Science” at GMR Institute of Technology, Rajam, AP.
- Organized as Coordinator of Seven-day Internal Faculty Development Program on “*Sensors using C*” from 21<sup>st</sup> October ~ 02<sup>nd</sup> November 2022 at Department of CSE and ECE with the collaboration with Udiyate Technologies Private Limited, Bengaluru, Karnataka, India at Gandhi Institute For Technology (Autonomous), Bhubaneswar, Odisha.

**Workshops Attended:**

- IEEE Students Branch, IIT, Kharagpur sponsored “*IEEE Workshop on Cryptology*” at IIT, Kharagpur, in September 24~ 25, 2005.
- Workshop on “*Data Mining & WEKA: A Datamining Tool*” at Gandhi Institute of Engineering & Technology, Gunupur (Odisha) from February 16~17, 2008.
- Resource Person in AICTE, New Delhi & ISTE sponsored “*Staff Development Programme in Soft Computing Applications in Data Mining*” at GMR Institute of Technology, Rajam (A.P.), from May 7~18, 2008.
- IBM Sponsored Workshop on “*IBM I.T. Infrastructure Management*” at Gandhi Institute of Engineering & Technology, Gunupur (Odisha) from May 8~ 10, 2008.
- Three Days National Workshop on “*Soft Computing Techniques*” at Gandhi Institute of Engineering & Technology, Gunupur (Odisha) from Aug 22~24, 2008.
- Mission 10X Programme of WIPRO at Gandhi Institute of Engineering & Technology, Gunupur (Odisha) from March 3~5, 2008.
- National Workshop on “*Patent and Copyrights for Maximizing Research Impact (PCMRI-2K5)*” at GMR Institute of Technology, Rajam (A.P.), December 26~27, 2015.
- National Workshop on “*Question Paper Preparation*” at GMR Institute of Technology, Rajam (A.P.), November 26~27, 2016.
- Workshop on “*Machine Learning*” at Andhra University College of Engineering, Visakhapatnam (AP) organized by CSI Visakhapatnam Chapter from December 15~17, 2017.
- Workshop on “*Biological Inspired Computing and Applications (BICA-2018)*” at GVP College of Engineering for Women, Visakhapatnam from April 6~8, 2018, Sponsored by DST, New Delhi.
- National Level Workshop on “*Data Analytics & Machine Learning*” organized by GMR Institute of Technology, Rajam (A.P.) from April 26~27, 2019.
- Workshop on “*Blockchain Technology*” organized by Bennet University, Noida and Marwadi University, Rajkot, Gujarat from May 13~17, 2020. (Online)
- Workshop on “*Basics of Python Programming*”, Dr. C V Raman University, Bilashpur (CG), 27-28 July 2020 (Online)
- Online One-week Faculty Development Programme on “*Data Analysis and Visualization*” from June 8 - June 14, 2023, Ramanujan College, Delhi University, New Delhi.
- UGC Sponsored “*Summer Institute in Mathematics*” at Sambalpur University, Odisha 15th June-15th July 1995.
- “*Advancements in Privacy Preserving Data Mining*”, GIAN Course (MHRD, India) at NIT, Goa from December 19~29, 2016.
- FDP on “*Sensor Networks and IoT*” at GMR Institute of Technology, Rajam, AP in association with NIT Warangal from February 14~19, 2017.

- FDP on “*Machine Learning and Data Analytics using Python*” organized by EICT Academy, IIT Roorkee from April 15~22, 2020.
- FDP on “*R Programming*” organized by JSPM’s Rajarshi Shahu College of Engineering, Tathawade, Pune (MH) during April 23~28, 2020 in collaboration with Spoken Tutorials, IIT Bombay.
- FDP on “*Improving Your Research Visibility – Research Impact and Metrics*” organized by VCET, Thindal, Erode, Tamil Nadu from May 11-13, 2020.
- AICTE-ATAL FDP on “*Augmented Reality/Virtual Reality*” from May 18 ~ 22, 2020 conducted by CSE Department, Punjab Engineering College, Chandigarh.
- FDP on “*Cyber Security and Digital Forensics*” organized by ISTSW, Rajanagaram, East Godavari, AP from May 21~23, 2020.
- One Week FDP on “*Ruby and Perl Programming*” organized St. Peter’s Engineering College, Hyderabad in association with Spoken Tutorials, IIT Bombay, from 3<sup>rd</sup> June 2020 to 8<sup>th</sup> June 2020.
- One Week FDP on “*AI and its Applications*” organized by Rama Chandra College of Engg, Eluru, Andhra Pradesh from May 25~30, 2020.
- One Week FDP on “*Data Science for Biomedical Applications*”, organized by Velalar College of Engg and Tech, Erode (TN) from 26 May ~ 01 June 2020.
- FDP on “*Cyber Security and Digital Forensics*” organized by International School of Technology and Science for Women, East Godavari, Andhra Pradesh from May 21~23, 2020.
- FDP on “*Data Science and ML*” organized by GMR Institute of Technology, Rajam, Andhra Pradesh, from May 14~16, 2020.
- One Week FDP on “*Development of Laboratory Instructions*” organised by NITTR, Kolkata from June 15~19, 2020.
- One Week FDP on “*New Teaching Strategies and Techniques*” organized by SSM Polytechnic, Vijayapur, Karnataka from 29 June ~ 03 July 2020
- One Week FDP on “*Block Chain and its Applications*” organized by GMRIT, Rajam, June 10~15, 2020.
- FDP on “*Information Security and Cryptography*”, organized by Lendi Institute of Engg and Technology, Vizianagaram (AP), June 20~22, 2020
- AICTE-ATAL FDP on “*Data Science*”, organized by College of Technology and Engg., Ugaipur, Rajsthan from June 22~26, 2020
- FDP on “*The Frontiers of Cloud Computing and High-Performance Computing*” organized by GMR Institute of Technology, Rajam (A.P.) from 19~21 June 2020
- One Week FDP on “*Online Teaching Learning Processes using ICT Tools for Education 4.0*”, organized by St. V P College of Engg and Technology, Nagpur (Maharashtra) from 08~13 June 2020
- International FDP on “*Exploring the Nuances of Deep Learning for Research Applications*”, organized by Karunya Inst of Tech and Sciences, Coimbatore (TN) from 13~17 July 2020
- One Week FDP on “*Emerging Trends in Data Science and IoT*”, organized by Arka Jain University, Jamshedpur, Jharkhand, from 20~25 July 2020
- AICTE-STTP on “*Advanced Deep Learning Applications with Python*”, organized by Anurag Group of Institutions Hyderabad, from 27 July ~ 01 Aug 2020
- One Week FDP on “*LaTeX and Its Applications for Researchers*”, organized by VV College of Engg, Mysuru (Karnataka) from 20~24 July 2020.
- One Week FDP on “*Information Security & Privacy in Cyberspace*” organized by GMRIT, Rajam, from 27~31 July 2020
- One FDP on “*Challenges and Opportunities in AI and ML*”, organized by B K Institute of Technology, Bhalk (Karnataka), from 20 ~ 24 July 2020
- International FDP on “*Machine Learning and Computer Vision: Applications, Research and Challenges (MLCV2020)*”, organized by NIT Silchar & Gauhati University Institute of Science & Technology, Guwahati, Assam, from 24~18 August 2020
- AICTE-STTP on “*Building Cyber Physical Systems*” organized by Srikrishna College of Engineering, Coimbatore, from 03~08 August 2020
- International FDP on “*Emerging Trends & Technologies in Data Science*”, organized by GMRIT, Rajam, from 24 ~ 29 August 2020
- AICTE-STTP on “*ML for Medical and HealthCare Applications*”, organized by Velalar College of Engg and Tech, Erode (TN), from 03~08 August 2020
- One Week FDP on “*PYCODE@HITAM*”, organized by HITAM, Medchal, Hyderabad, from 10~14 August 2020

- AICTE-STTP on “*Big Data Analytics*”, organized by S N College of Engg, Tiruchirapalli, TN. from 03~08 August 2020
- One Week FDP on “*AI using Python*”, organized by Brain O Vision, from 14~19 September 2020
- AICTE-STTP on “*Predictive Analytics and Machine Learning using R programming and KNIME*”, organized by Hindustan College of Engg & Tech, Coimbatore, TN, from 21~26 September 2020
- One Week FDP on “*Python Programming*”, organized by APSSDC, AP from 24 Aug ~ 05 September 2020
- AICTE-STTP on “*Human Values, Ethics, Morals, Behavioral Sciences and Attitudes*”, organized by KIIT College of Engg, Gurugram, from 10-15 September 2020
- 50 Hours/15 days FDP on “*Data Science and Applications in STEM*”, organized by Anadhra University, JNTUK and APSICHE, from 07~21 September 2020
- AICTE-STTP on “*Advanced Deep Learning Techniques with Python*”, organized by Anurag University, Hyderabad, from 31 Aug~05 September 2020
- Five Day Online National FDP on “*Emerging Research Trends in Computer Science and Engineering (ERTCSE-2020)*”, Organized GMR Institute of Technology, Rajam, Andhra Pradesh from 19~23 October 2020.
- AICTE-STTP on “*Artificial Intelligence and Machine Learning with Data Science*”, Organized by Guru Nanak Dev College of Engineering, Ludhiana, Punjab, from 02~07 November 2020.
- AICTE-ATAL FDP on “*Quantum Computing*” Organized by MNIT, Jaipur, Rajsthan from 23~27 November 2020.
- AICTE-ISTE Sponsored Induction Refresher Programme on “*Feature Analysis Using AI ML*” organized by Sri Krishna College of Engineering and Technology, Coimbatore, TN from 07~12 December 2020.
- AICTE-ATAL FDP on “*Speech Processing Using Deep Learning*”, Organized by IIT Dharwad, Karnataka, from 28 December 2020 ~ 01 January 2021.
- AICTE - ISTE Sponsored Induction / Refresher Program (Online) on “*Advanced Training Program on Teaching (Phase-I)*”, Organized by Malla Reddy Engineering College (Autonomous), Hyderabad, Telangana during 09~15 February 2021.
- APSSDC and EXCELR Solutions organized 100 Contact Hours Virtual Training Program on “*Artificial Intelligence*”, from 7<sup>th</sup> January ~ 12<sup>th</sup> March 2021.
- AICTE-ATAL FDP on “*Data Science with Statistical Methods Using R Programming- Basic Course*”, Organized by Amity University, Lucknow, UP from 21~ 25 June 2021.
- Five Days Online FDP on “*Advancements in Data Analytics using Informatica*”, organized by Vignan’s Institute of Engineering for Women, Visakhapatnam, AP from 21~ 25 June 2021.
- 5 days online FDP on “*Achieving Excellence in Teaching, Research and Commercialization*”, Amity University, Kolkata from 19~23 July 2021.
- 5 days online FDP on “*Quantum Information System and Machine Learning*”, Ramaiah Institute of Technology, Bengaluru, in association with IEEE-CIS Bangalore Chapter from 23<sup>rd</sup> to 27<sup>th</sup> August 2021.
- Online FDP on “*Quantum Computing*”, Jointly organized by Electronics & ICT Academies and IBM India, September 27 - October 08, 2021.
- AICTE-ATAL Advanced FDP on “*Data Science with Statistical Methods Using R Programming- Basic Course*”, Organized by Amity University, Lucknow, UP from 10~ 14 January 2022.
- Five days FDP on “*IBM Data Analytics using COGNOS*”, K L University, Vijayawada (AP) and IBM, September 2023
- Professional Workshop on “*Getting started with SAS and Open Source, Machine Learning with SAS*”, on 4<sup>th</sup> and 5<sup>th</sup> September 2023 from SAS. (Online)
- Participated in 10 Hours International Faculty Development Program on “*Machine Learning and Artificial Intelligence*” ExcelR Edtech Pvt. Ltd., from 12<sup>th</sup> August to 19<sup>th</sup> August 2024. (online)
- 2025 1st Online STP on Digital Professors: Transforming Higher Education with ICT- (08/09/2025 to 13/09/2025): UGC - Malaviya Mission Teacher Training Centre, Gujarat University(online)
- GIAN, PDPM IIITDM Jabalpur, Security and Threats of Generative AI in Biometric (December 18-23, 2025) (Offline)
- 10 Hours International Faculty Development Program on "Machine Learning and Artificial Intelligence", Pimpri Chinchwad College of Engineering and Research, from 12-08-2024 to 16-08-2024 (Online)
- AI Applications in Banking and Healthcare Industry, K.J. Somaiya Institute of Technology Sion, Mumbai, from 12-08-2024 to 16-08-2024 (Online)
- Emerging Trends in Data Analytics and Visualization using Cloud Technologies, GMR Institute of Technology, from 17-03-2025 to 21-03-2025

- Gen AI & Chat GPT Application in the Industry, SJC Institute of Technology, Chikkaballapur. From 27-01-2025 to 01-02-2025
- Deep Learning and Optimization for Healthcare, Electronics and ICT Academy, NIT Patna, from 24-02-2025 to 03-03-2025

### Online Courses Completed:

- *"Predictive Analysis"* from SWAYAM-MHRD-AICTE, duration 4 Weeks, completed on 14<sup>th</sup> March 2018.
- *"Exploring Data: Graphics and Numerical Summaries"* from OpenLearn (The Open University), duration 20 Hrs., completed on 05<sup>th</sup> May 2018.
- *"Visualization: Visual Representation of Data and Information"* from OpenLearn (The Open University), duration 8 Hrs., completed on 07<sup>th</sup> May 2018.
- *"Learn Graph and Social Network Analytics using Python"* from Udemy, February 1, 2019. (Duration 6.5 Hours)
- *"Machine Learning for Engineering and Science Application"*, NPTEL FDP course from January to April 2019, IITM, Chennai, completed 21st April 2019. (Duration 12 Weeks)
- *"Crash Course in Deep Learning with Google Tensor Flow"*, from Udemy, completed on 6th March 2019. (Duration 4 Hours)
- *"Designing Digital Solution"* from SWAYAM-MHRD-AICTE, completed on 31st March 2019. (Duration 50 Hours)
- *"Social Networks"*, NPTEL FDP Course from July to November 2019, IITM, Chennai, 30<sup>th</sup> November 2019. (Duration 12 Weeks)
- *"Data Science using Python"*, NPTEL FDP Course from January to April 2022, IITM, Chennai, 14<sup>th</sup> April 2022. (Duration 12 Weeks)
- *"Big Data Computing"*, NPTEL FDP Course from July to October 2022, IIT, Patna, 29<sup>th</sup> October 2022. (Duration 8 Weeks)
- *"Data Analysis and Visualization"*, Ramanujan College, University of Delhi, from 08-14 June 2023.
- *"Design Thinking Innovation"*, from Coursera, completed on 7<sup>th</sup> August 2023, (Duration 5 Weeks)
- *"Optimization for Decision Making"*, from Coursera, completed on 19th November 2023, (Duration 4 Weeks)
- *"Learning Python for Data Analysis and Visualization"* from Udemy, completed on April 21, 2020. (Duration 21 hours)
- *"The Data Science Course 2020: Complete Data Science Boot Camp"* from Udemy, completed on April 21, 2020. (Duration 29 hours)
- *"Machine Learning and Deep Learning in Python and R"*, from Udemy, completed on August 20, 2020. (Duration 35 hours)
- *"Machine Learning A-Z: Hands on Python and R in Data Science"* from Udemy, completed on August 4, 2020 (Duration: 44.5 Hours)
- *"Machine Learning with R-Studio-ML"* from Udemy, completed on September 7, 2020 (Duration: 13 Hours)
- *"R Programming"* from Udemy, completed on September 19, 2020 (Duration: 21 Hours)
- *"Bayesian Method for Machine Learning"* from Coursera with Honour, completed on 29<sup>th</sup> September 2020, (Duration 6 Weeks-33 Hours)
- *"Structuring Machine Learning Projects"* from Coursera, completed on 12<sup>th</sup> September 2020, (Duration 6 Weeks)
- *"SQL for Data Science"* from Coursera, completed on 16<sup>th</sup> October 2020, (Duration: 4 Weeks/14 Hours)
- *"The Data Scientist's Toolbox"* from Coursera, completed on 25<sup>th</sup> September 2020, (Duration: 4 Weeks/18 hours)
- *"Structuring Machine Learning Projects"* from Coursera, completed on 12<sup>th</sup> September 2020, (Duration: 2 Weeks/ 8 Hours)
- *"The Complete Python Course: Beginners to Advanced"* from Udemy, completed on September 20, 2020 (Duration: 18 Hours)
- *"Convolutional Neural Networks"*, from Coursera, completed on November 1, 2020 (Duration: 4 weeks/20 hours)
- *"R Programming"* from Coursera, completed on November 6, 2020 (Duration: 4 weeks/57 hours)

(Dr. Sasanko Sekhar Gantayat)