

Name : Mrs A. Vinitha

Designation : Assistant Professor

Department : Computer Science with Cyber Security

Qualification : M.Sc., M.Phil., (Ph.D.)

Experience : Teaching : 10 Years Industry : Nil Research : 3 years

Area of Specialization(s) : Machine Learning, Big Data Analytics, IOT, Cyber Security

Email (Official ID) : vinitha@drngpasc.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Dr. N.G.P. Arts and Science College, Coimbatore	Pursuing
M.Phil.	Computer Science	Dr. N.G.P. Arts and Science College, Coimbatore	2014
M.Sc.,	Computer Science	Dr. N.G.P. Arts and Science College, Coimbatore	2012
BCA	Computer Applications	P.S.G.R. Krishnammal College for Women, Coimbatore.	2010

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Certification	Introduction to Machine Learning	NPTEL	2024
Online Certificate	Python Programming	Solo Learn	2022

Research Publications (Indexed)

- A. Vinitha Dr. B. Rosiline Jeetha **Insights of Feature Selection in IDS Using the Hybrid PCALDA Algorithm**, ACTA SCIENTIAE, Vol. 7 No. 2 (2024), ISSN: 1517 – 4492, (Indexed in Scopus).
- A. Vinitha Dr. B. Rosiline Jeetha **Comparison and Performance of Feature Selection Algorithms for IDS**, Journal of Systems Engineering and and Electronics, Vol. 34 No 9 (2024), ISSN : 1671 – 1793, (Indexed in Scopus).

- A. Vinitha Dr. B. Rosiline Jeetha **Hybrid approach of Combined RNN and the SALP Optimization Technique to Detect the Intrusions using the LSSA Algorithm**, Vol. 15 No 85 (2024), ISSN : 0976 – 0997, (Web of Science)
- A. Vinitha Dr. B. Rosiline Jeetha **Comparative Analysis for Detecting Malicious packets in LAN Network using Bagging and Boosting Techniques**, Tuijin Jishu/Journal of Propulsion Technology, Vol. 44 No. 3 (2023), ISSN: 1001-4055, (Indexed in Scopus).
- A. Vinitha Dr. B. Rosiline Jeetha **Detecting Intrusions Using ML Algorithms: A Review**, Samdarshi, Vol 16, Issue 4, September 2023, ISSN: 2581 – 3986, (UGC CARE)
- A. Vinitha, Dr. V. Jaiganesh, **Intrusion Detection System Using Machine Learning Algorithms: A review**, Advanced Engineering Science, Vol. 54, Issue 2, October 2022, ISSN: 2096 – 3246, (Indexed in Scopus).
- A. Vinitha, Dr. V. Jaiganesh **A Critical Review of IDS in IoT**, Kanpur Philosophers International Journal of humanities, Law and Social Sciences, Vol. 9, Issue II, No.4, November 2022, ISSN: 2348-8301, (UGC CARE)
- A. Vinitha **IoT in healthcare: A Survey**, Journal of Education Rabindra Bharati University, Volume XXIII, Issue 8, September 2021, ISSN: 0972 – 7175, (UGC CARE).

Other Publications: International / National Journals

- A. Vinitha, **A Survey of Thyroid Detection using Datamining Techniques**, EPRA International Journal of Research and Development, Volume 5, Issue 7, pp. 76 - 78 July 2020 ISSN: 2455 – 7838, DOI: 10.36713/epra 2016.
- Dr.V. Jaiganesh, Dr. P. Sumathi, A. Vinitha, **Intrusion Detection System using multiclass batch algorithm**, International Journal of advanced research in computer and communication engineering, Volume 4, Issue 2, February 2015 ISSN: 2278 – 1021, DOI: 10.17148/IJARC015.4214.
- Dr.V. Jaiganesh, Dr. P. Sumathi, A. Vinitha, **Classification Algorithms in Intrusion detection system**, International Journal of Computer Technology and Applications, Volume 4 Issue 5, 746 – 750 Sep to Oct 2013, ISSN: 2229 – 6093.

Book Publications

- **Unleashing Power of Machine Learning through Python**, Mrs. A. Kiruthika, Mrs. A. Vinitha, Mr. D. Sathish, Mrs. S. Hemalatha, BookFly, Coimbatore, 2024, 9-788196-368876.

Consultancy

Nature of Consultancy	Client	Amount	Completion Status
Adobe Illustrator Training	S.G. Apparel Manufactures & Exporter of Knitted Garments	Rs. 10000	Completed

Book Chapter Publications

- **Edge AI is the future with Integration of 5G**, Mrs. A. Vinitha, Book Fly, Coimbatore, 2025, 978-93-48990-40-2.
- **Advances in Future Trends and Technology, Techniques in AI for Performing the Smart Agriculture and Issues in Deploying the Model**, Mrs. A. Vinitha, Book Fly, Coimbatore, 2024, 978-81-963688-3-8.

Presentations in Conference

- **A Study of Modern Era and Tools of Cyber Security**, International Conference on Advanced Computing (ICAC- 2024), Bharathiar University, Coimbatore, Sep 26th & 27th 2024.
- **Plant Disease Prediction Using the Drone Technology**, International Conference on Advanced Computing (ICAC- 2024), Bharathiar University, Coimbatore, Sep 26th & 27th 2024.
- **Understanding Artificial Intelligence: A Glimpse into the future**, International Conference on Advanced Computing (ICAC- 2024), Bharathiar University, Coimbatore, Sep 26th & 27th 2024.
- **Ensemble Method for Network IDS Using the B-DRF Algorithm**, 5th International Conference on Electronics and Sustainable Communication Systems (ICESC – 2024), Hindusthan Institute of Technology, Coimbatore, 7th & 9th August 2024.
- **Technology that Disseminates the traditional Indian Knowledge System**, National Seminar on Integration of traditional Indian Knowledge system into Modern Higher Education : NEP perspective , (ICSSRIKS2024) Sponsored by ICSSR New Delhi, Dr. N.G.P. Arts and Science, Coimbatore, 4th & 5th July 2024.
- **Performing NIDS Using Convolutional Neural Network with LSTM Model Enhanced with SALP Swarm Optimization**, International Conference on Computational Intelligence and Communication Technologies (ICCICT) , Dr. N.G.P. Arts and Science College, Coimbatore, Jan 4 2024.

- **Comparison of Machine Learning Algorithms for detecting the intrusions in IDS**, International Conference on Artificial Intelligence and Blockchain(ICAIBC), ,Bannari Amman Institute of Technology, Sathyamangalam, Jan 5th and 6th 2023.
- **Intrusion Detection System using Machine Learning Algorithm**, International Conference on Advanced Computing and Informatics (ICACI), SIMATS School of Engineering, Saveetha Institute of Medical & Technical Sciences, Chennai, September 9th and 10th 2022
- **IDS in IOT : A Review**, International Conference on Intelligent Computing and Technology , Sri Ramakrishna College of Arts & Science, Coimbatore, 9th March 2022
- **Challenges in IOT: A Survey** , 1st National Conferences on Recent trends in Intelligent Computing, PSG College of Arts & Science Coimbatore, 25th March 2021.
- **IOT in Agriculture: A Survey**, 2nd National virtual Conferences on Applications of Deep learning in Artificial Intelligence for Healthcare, Dr. N.G.P Arts and Science College Coimbatore, March 2021
- **IOT in Health Care and its Issues in Implementation**, 4th International E-conferences on Incipient Research in Information Technology, Commerce Management and Linguistics, The Quaide Milleth College for Men in Collaboration with Dambi Dollo University Ethiopia, 17th and 18th Sep 2021
- **IOT in healthcare: A survey**, Two days international e-conferences on Recent Trends and Technologies in Soft Computing, St. Peter's Institute of Higher Education and Research, Avadi, Chennai, 28th and 29th Sep 2020.
- **Intrusion Detection System Using Machine Learning Algorithms**, 4th National conference on Issues and Trends in Advanced Computing, Bannari Amman Institute of Technology, Sathyamangalam, 14th & 15th Mar 2014.
- **Intrusion Detection System**, International Conferences on “Enjoyable Programming & IT Trends, Ayyan Thiruvalluvar College of Arts and Science, 19th and 20th Dec 2012

Participation in Conference

- **International Seminar on Research in Computers Why What and How?**, Bharathiar University ,10 Feb 2012.
- **National Conference**, Dr N. G. P Arts and Science College Coimbatore, 3rd Feb 2012
- **International Seminar**, P.S.G.R Krishnammal College for Women, Dec 18th 2009.

Participation in Workshop

- Participation in TNSCST Sponsored two days National level workshop on **Unleashing Deep Learning for Disease Prediction**, Kongu Engineering College, Perundurai, 9th January to 10th January 2024.

- Participation in Online Workshop on **Data Analytics & AI**, Centre for Computer Science and Information Technology (CCSIT), Manjeri, University of Calicut in association with IPSR Solutions, 15 June 2024.
- Participation in One day National Workshop on **NEP – 2020 Opportunities and Challenges of HEIs in achieving Gross Enrollment ratio (GER) in creating Human Resources to the Paradigm Industry Requirements**, Dr.N.G.P. Arts and Science College, Coimbatore, 16 Feb 2024.
- Participated in Nine Days National Level **Workshop on DEVOPS**, SRM Institute of Science and Technology, Ramapuram, Chennai 16 June to 24 June 2023.
- Online workshop on **NEP 2020**, UGC-HRDC Osmania University, Hyderabad Telangana, 14 Sep to 16 Sep 2022.
- Participated in Two days National Level workshop on “**Research Issues in Data Mining and Implementation Aspects**”, Sri Krishna College of Engineering and Technology, Coimbatore, 21 st and 22 nd Feb 2014.
- **MATLAB Programming**, Tirupur Kumaran College for Women, Tirupur, 31 st Jan 2014
- NPTEL Workshop, **National Programme on Technology Enhanced learning IIT**, Madras, 31 August 2013.
- **Placement Training Workshop Finishing School**, P.S.G.R Krishnammal College for Women, Coimbatore, Oct 2009.
- **How to test a Software Using Testcases**, P.S.G.R Krishnammal College for Women, Coimbatore, 28 th Aug 2009 to 28 Aug 2009

Participation in Faculty Development Programme

- Five days Faculty Development Programme on **Exploring Entrepreneurial Opportunities: AI & IOT in Industry 4.0**, PSG College of Arts & Science 03/02/2025 to 07/02/2025.
- Five days Faculty Development Programme on **Internet of things for Emerging Technical Applications**, M.P. Nachimuthu M.Jaganathan Engineering College 12/08/2024 to 17/08/2024.
- Faculty Development Programme on **Introduction to Machine Learning**, NPTEL from July to September 2024.
- International Virtual FDP on **Exploring New Frontiers in Teaching Tools AI and Data Analytics**, MEASI Institute of Information Technology, from 29/07/2024 to 02/08/2024.
- National Level Faculty Development Programme on **Enhancing Academic and Administrative Excellence Through Quality Initiatives**, Park’s College Autonomous, Tirupur from 22/07/2024 to 29/07/2024.
- Online Faculty Development Programme on **Essential Skills for Professional Development in Higher Education**, Star International Foundation for Research and Education from 01/07/2024 to 07/07/2024.

- Faculty Development Programme on **Quantum Computing**, Sri Sairam Engineering College from 27/05/2024 to 01/06/2024.
- National Level Faculty Development Programme on **Teaching Strategies – A Pedagogy**, SRM Institute of Science and Technology from 16/02/2024 to 22/02/2024.
- National Level Faculty Development Programme on **Recent Advances in Smart Materials and Sensor Technology**, Paavai Engineering College from 12/02/2024 to 17/02/2024.
- Faculty Development Programme on **IOT**, Dr. N.G.P. Arts and Science College from 15/11/2023 to 16/11/2023.
- **Recent Research Trends and Challenges in Computer Science**, KG College of Arts and Science from 11/09/2023 – 14/09/2023 & 19/09/2023.
- **Cloud Infrastructure (AWS)**, Thiruthangal Nadar College Chennai in collaboration with Braino vision Solutions India Pvt Ltd from 21/08/2023 to 25/08/2023.
- **Fundamentals of Research**, IOT Academy, 3/08/2023 to 4/08/2023.
- **Recent Trends on Research Methodologies, Tools and Techniques**, KG College of Arts and Science Coimbatore from 10/07/2023 to 15/07/2023.
- **Empowering Education for Innovation – A NEP Perspective**, Dr. N.G.P. Arts and Science College Coimbatore, 30 th June to 4 th July 2023.
- **Outcome Based Education**, Dr. N.G.P. Arts and Science College Coimbatore, 17 th June to 21 st June 2023
- **Research and Methodology in Computer Science**, KG College of Arts and Science ,23 Jan to 28 Jan 2023.
- **Selection of Scholarly Journals & Web Visibility – Strategies and Techniques**, Dhanraj Baid Jain College, Thoraipakkam, Chennai, 20 Feb 2023 to 28 Feb 2023.
- **Personality Grooming – Handling Stress and Emotional Intelligence**, PPG College of Arts and Science, Coimbatore, 2 Jan 2023 to 6Jan 2023.
- **Emerging Technologies in Computer Science Research**, PPG College of Arts and Science, Coimbatore,19 Dec 2022 to 27 Dec 2022.
- **Recent Technologies**, Sathyabama Institute of Science and Technology, 29 Nov to 6 Dec 2022
- **Data Analytics and Visualization using Tableau**, Sri G.V.G Visalakshi College for Women, 14 Nov to 18 Nov 2022
- **Machine Learning and Deep Learning**, SRM Institute of Science and Technology Ramapuram campus, Chennai, 11 Oct to 15 Oct 2022
- **Advancement in Online Tools**, Office Tools and ERP Software, A.V.P. College of Arts and Science, 11 June to 17 June 2020.
- **Applied Research in Multidisciplinary Studies**, Sona College of Technology, Salem, 18 and 19 May 2020.
- **Cloud Application Development**, CHRIST Kengeri Campus, Bangalore, 13 th and 14 th May 2020.

- **Recent Trends in Color Image Processing**, Patrician College Chennai, 11 May 2020
- **Python 3.4.3**, Adhiparasakthi Engineering College in association with Spoken Tutorial Project IIT Bombay, 16 April 2020 to 22 April 2020.
- **Introduction to Big Data Analytics**, Nandha Engineering College, Erode, 19 Oct and 20 Oct 2016.
- **Introduction to Mobile App Development**, Nandha Engineering College, Erode, 19 Oct and 20 Oct 2016.

Conference / Seminar / Workshop Organized

- Organizing member, **National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective**, Dr.N.G.P. Arts and Science College, Coimbatore, 04/07/2024 to 05/07/2024.

Invited Speaker / Session Chair- Conference / Seminar / Workshop

- Resource Person, **IOT Applications in Real Life**, Hindusthan College of Arts and Science, 18 June 2021.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
International Association of Engineers	Life Time	From 2024 onwards
Institute for Educational Research and Publication	Life Time	From 2024 onwards