Name : **Dr. P. S. Vijayalakshmi**

Designation : Assistant Professor

Department : Computer Applications

Qualification : M.C.A., M.Phil.,SET., Ph. D.,

Experience : Teaching: 12 Years 3 months , Industry: 4 years

Area of Specialization(s): Data Mining, Big Data, Deep Learning

Email (Official ID) : vijayalakshmi.ps@drngpasc.ac.in

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	SNMV College of Arts and Science, Coimbatore (Bharathiar University)	2023
SET	Computer Science	Bharathiar University	2012
M.Phil.	Computer Science	Bharathiar University	2008
M.C.A	Computer Applications	Bharathidasan University, Trichy	2003
B.Sc.	Zoology	NGM college,Pollachi (Bharathiar University)	1997

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Diploma in Advanced Network Centered Computing (ANC)	Computer Networks	NIIT	1999
Online Certification	Big data Analytics	NPTEL	2018
Online Certification	Diploma in Machine Learning Using R	Alison	2020

Books Chapters Published

Title	Authors	Publisher	ISBN
Deep learning algorithms for medical big data Analytics: A study, Current Trends in Multidisciplinary Research	**P.S.Viayalakshmi**	ESN Publications Research and Development	ISBN :978-93-9196-51-2
Deep Neural Networks for Automated Cyber Security: Identification of Dynamic Malware in Cloud Computer Networks	**P.S.Viayalakshmi**	Apple Academic Press (AAP) Publications, CRC Press, An international publisher of Taylor & Francis	**ISBN:** 9781774 916346

Research Publications (Indexed)

International

- **P.S.Viayalakshmi,** Dr.M.Jayakumar ,"An Overview Of Quantum Computing And Artificial Intelligence: Benefits And Challenges" in the Journal International Journal of humanities, Law and Social Sciences Kanpur Philosophers ISSN 2348-8301, Vol. IX, Issue II No.7 : 2022 (UGC care list)

- **P.S.Viayalakshmi,** Dr.M.Jayakumar ,"An Improved Grey Wolf Optimization Algorithm (iGWO) for the Detection of Diabetic Retinopathy Using Convnets and Region based Segmentation Techniques" in the International Journal of Health Sciences, 6(S1), ISSN 2550-6978 E-ISSN 2550-696X , 2022,13100–13118. (Scopus)

- **P.S.Viayalakshmi** , Dr.M.Jayakumar ,"Medical Image Analysis Using Deep Convolutional Neural Networks: Architecture And Its Applications" in the Journal of Multidimensional Research& Review , Vol.2, Iss.2 ,:50-60 ,

- **P.S.Viayalakshmi** , Dr.M.Jayakumar ,"An Efficient Deep Intelligent Based MACO-CNN Algorithm for Classification of Diabetic Retinopathy Disease from Retinal Fundus Images" in the Journal Design Engineering 2021 Oct 18:5182-205. (Scopus)

- **P.S.Viayalakshmi** , Dr.M.Jayakumar ,"Medical Image Segmentation Using Deep Learning with Faster RNN and UNET Architectures" in the Journal Anvesak, Volume 51 ,Issue 01(xxii), 0378-4568, 2021/1 (UGC care list)

- **P.S.Viayalakshmi** , Dr.M.Jayakumar ,"A Review: Deep Learning Techniques Using Image Segmentation for Diabetic Retinopathy" in the Journal STRAD RESEARCH, Volume 7, Issue 8, ISSN: 0039-2049 ,2020/8 (UGC care list)

- **P.S.Viayalakshmi** ,Dr.M.Jayakumar,"A Survey on Insights of Big data Analytics in Healthcare Applications" in the Journal Our Heritage Journal, Volume 68, Issue 1, ISSN 0474-9030, 2020/1 (UGC care list)

- **P.S.Viayalakshmi**, C.Aiswarya "Market Basket Analysis For Frequency And Patten Mining Of Dept. Stores Using Fp Growth And Association Rule Mining" in the Journal IJRAR,Volume 6, Issue 2, E-ISSN 2348-1269 P ISSN 2349-5138, 2019/6(UGC care list)

- **P.S.Viayalakshmi,** K.Tamilselvi "A Review on Impact of Bigdata Analytics in E-Commerce" in the Journal IJRAR, Volume 6, Issue 2, E-ISSN 2348-1269 P ISSN 2349-5138, 2019/6 (UGC care list)

- **P.S.Viayalakshmi,** C.Kumuthini , K.Gomathy , "HIPI: A Review On Hadoop Map Reduce Framework Using Image Processing In Bigdata" in the Journal International Journal of Computer Sciences and Engineering, Volume 6, Issue 8, IJCSE, ISSN: 2347-2693, 2018/10 (UGC care list)

- **P.S.Viayalakshmi,** T Arunambika, "Big Data Management and Processing in Cloud Computing Environments" in the Journal Wireless Communication, Volume 10, Issue 4, 78-80, 2018/4/1 (UGC care list)

- **P.S.Viayalakshmi** ,T Arunambika, " IoT-An Emerging Technology in Real Time Products and their Solutions"   in the Journal Automation and Autonomous Systems Volume10, Issue2 , 23-25,2018/2/1. (UGC care list)

- **P.S.Viayalakshmi** ,S.Lakshmi devi,"A Comparative Study: MariaDB Vs MongoDB" in the Journal IJSR Volume7, Issue 1, ISSN (Online): 2319-7064 Index Copernicu, 2018/1. (UGC care list)

- **P.S.Viayalakshmi**,"Facing Security Problems in Big Data and Hadoop" in the Journal International Journal of Science and Research (IJSR) Journal 6, Issue12, 2017/12. (UGC care list)

Presentations in Conferences

- National Conference-NCERTCST'20 **A New Approach To Implement The Genetic Neuro Hybrid Method To Suppress The Anterior Gradient Of The Pancreatic Cancer Cell Development** 29-Jan-20 ,One Day, SNMV College of Arts and Science

- National Conference **Medical Image Analysis Using Deep Convolutional Neural Networks: Architecture And Its Application** 23-Jan-20 One Day,PSG College of Arts and science

- International Conference **A New Genetic Neuro hybrid approach on Diagnosis of Pancreatic Cancer** 7-Feb-20 One Day,DR.GRD CAS

- International Conference- **HIPI: A Review on Hadoop Mapreduce Framework using Image Processing in Bigdata** 9,10 Aug 2018Two Days,DR.NGP ASC

- International Conference- **Routing Protocols: Flying Adhoc Neworks** 30,31Aug 2018,Two Days,Rathinam Technical Campus

- International Conference- **Data Science and Analytics-Secure Data management in Distributing cloud computing** 23-Sep-17 One Day,Rathinam Technical Campus

- International Conference- **Data Science and Analytics-Facing Security problems in Bigdata and Hadoop** IJSR ISSN (Online): 2319-7064 One Day Rathinam CAS

- International Conference on Emerging Trends in Science and Technology (ETIST 2021) **Deep Convolutional UNET using Biomedical Image Segmentation for Diagnosis of Diabetic Retinopathy with Optimized Hybrid DuckTraveler and Fruit Fly (hDTFFA) Algorithm** ISBN No.: 978-81-953602-8-4 27th October 2021 One Day NGM College

- National virtual Conference on Applications of **Intelligent Robotic Process Automation An Effective Deep Learning Algorithms for Big Data Analytics: A Study ,**25th March, 2022 One Day,PSGR Krishnammal College

- International Interdisciplinary Research Conference on "**Recent Technological Development in Computational Mathematics and its Applications Robotics Process Automation Based Detection Of Diabetic Retinopathy In Healthcare** 02nd September,2022,One Day,Sri Ramakrishna CAS

- International Conference on Computing and Intelligent systems-2023, Fine Tuning through Artificial Bee colony Algorithm in Convolutional Neural network model for Biomedical Image classification, 24,25 January 2023 , Sri Krishna Aditaya CAS
- International Virtual Conference **An Efficient Deep intelligent based MACO-CNN algorithm for DR**,14,15 Oct 2021,2 days, IVC-DIMR
- International Conference on Research practices of cutting edge technologies in computing, **A Vision of Deep learning Applications Internet of Things in for Biomedical analysis** 11,12 Nov -2021,2 days, SRCAS
- International Interdisciplinary Research Conference on Recent Technological Development in Computational Mathematics and its Applications, **Robotics process automation based detection of diabetic Retinopathy in healthcare,**2.09.2022,One Day, Sri Ramakrishna College of Arts & Science, Coimbatore
- International Conference on Computing and Intelligent system Fine Tuning Through Artificial Bee colony algorithm in Convolutional neural network model for biomedical image classification ,24,25/01/2023Two days, Sri kACAS
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Participation in Conference

- National Conference on **E-Commerce Applications** 9-Sep-19 One Day, SNMV College of Arts and Science
- International Conference on **Impact of Bigdata Analytics** in E-Com,4-Sep-19,One Day SNMV College of Arts and Science

Participation in Seminars & Webinars

- State Level Seminar on **Recent Trends in Information Technolog**y,30-Aug-18,One Day Michel Job Collage of arts and science
- State Level Seminar **Impartance of Human Values in the present Scenario**,11-Dec-18,One Day,St.Paul College of arts and science
- International Seminar **Research in Computers why, what and how? Industry4.0**,3-Mar-20,one Day, Bharathiar University

- National Level Seminar **Cyber security and Ethical Hacking**,11-Feb-20,One Day, St.Paul College of arts and science
- Webinar **Style Manuals and Reference Management Software**,20 Jan-2021,One day, Christ College
- Webinar (Elsevier)Science Direct: **Read Quality and Publish quality**,18-Dec-2020, KPR IET
- Webinar (Elsevier) **How to publish in and optimize resources for ground breaking journals**,25-Feb 2021,One day, Researcher Academy
- National Webinar "**Art of Writing and Publishing Research Papers**" 21st and 22nd January, 2021Two days, Rajagiri College of Management and Applied Sciences
- International Seminar "**Nuances and Trends in Data Science**,26th to 30th July 2021,5 days, Hindusthan CAS
- Webinar (Elsevier) **Strengthening research planning and Execution skills,**15-Nov 2021 1 day, CHARUSAT University
- Webinar **360 degree view on research management & academic journal publishing**,12 November, 2021,1 day, Researcher Academy and Indian Council of Medical Research
- National Webinar **Academic writing and publishing,**2 Aug 2021,1 day, MES Asmabi College
- National Webinar **Awareness on IPR and its Management**,20/10/2021 to 22/10/2021,3 days, Sri Ramakrishna College of Arts and Science
- National Level Seminar CSI Student Chapter **Citation Management Using Mendeley**" 28th September 2021,1 day, Sri Ramakrishna College of Arts and Science
- Webinar **Outcome based Education** ,24/11/2021,1 day, SNMV CAS
- Webinar **How to Publish Top Grade Scientific Research Articles**,8th December, 2021,1 day, Bhagwan Parshuram Institute of Technology
- Webinar **Ethics of publication** , 23 November, 2021,1 day, Indian Council of Medical Research
- Webinar **Intelligence to machine learning** 11/6/202 1 day, Hindustan College of Arts and Science

- Webinar **ANALYTICS SERIES** organized by the Department of Computer Science, 27th and 28th May 2020,2 days, AVP College of Arts and Science
- Webinar **Fine tuning your research papers publication of Scopus, web of science, and ABDC journals** ,27/5/2020,1 day, Bharatha matha college
- Webinar **NAAC Accreditation and Assessment process** 15.10.2022,One Day, SNMV CAS
- **DELNET Webinar Research and Publication Ethics**,30.11.2022,One Day, SNMV CAS
- Webinar **Covid-19 Stress Management through Yoga**,17 May 2020,1 day, Nature Science Foundation
- National Seminar Contemptary trends in Big data analytics 24-Aug-17,One Day SRCAS

Participation in Workshop

- Workshop **Dynamic web site creation using python/flask/mysql**,10/11/2021,1 day, Akkaam and KOVAI CUNSULTANCY SERVICES
- Workshop Research article Writing & Reference Management Using Mendeley 22nd June 2020,1 day, Annamalai University in collaboration with ELSEVIER
- Workshop Enhancing Research Communication Skills through ScienceDirect and Mendeley 3 May 2020,1 day, Dayalbagh Educational Institute
- One Day **workshop Preventive Measures for Cyber security Threats** 28-Feb-18One Day, Hindustan college of Eng and Tech
- National Workshop **Awareness on revised NAAC norms and Procedures** 17-Aug-19 One Day, SNMV CAS
- Workshop **Web Development using Python and MYSQL** 29-Jun-19 One Day AKKAM Institute
- Workshop **R Programming(Data Analytics)** 20-Jul-19 One Day, AKKAM Institute
- Workshop (DST) **Awareness of I-STEM portal for use of the R& D Resources**,29-Mar-2021 to 30-Mar-2021,Two days, Bharathiar University

Participation in Orientation Programme / Short Term Courses

- Online Training Program **Introduction to Industry 4.0**,23-Dec -2020 to 10-Feb 2021,30 days, Bharathiar University with MHRD BU RUSA PHASE –II BEICH
- STTP(AICTE) **Recent Trends and Challenges in Data science**,04-Jan -2021 to 09-Jan-2021,6 Days, Hindustan college
- STTP(AICTE) Block chain and Artificial Intelligence towards the next big Technological Revolution,7-Dec-2020 to 12 Dec 2020,6 days, KSR College of Tech.
- STTP **Research Trends and challenges**,22 nov-2021 to 27 nov 2021,One week, Sona CAS
- Refresher Programme **Recent Trends in IoT and its Applications** 17 dec 2021 to 23 dec 2021,8 Days, Kavery Eng.College

Participation in Faculty Development Programme

- National Level Faculty Development Programme "**Transformation in Teaching Learning Process**",12 feb 2022 to 13 feb 2022, PSG CAS
- Two Days Faculty Development Program "**Adoptive Approaches for Modern Teaching and Research** 15 nov 2021 to 23nov 2021 8 Days, SNMV CAS
- FDP **Artificial Intelligence and Cyber security** 6-feb-2021 to 11-Feb-2021,6 Days, Karpaga vinayaga Eng.College
- National level FDP **Cloud Computing** 29-nov -2021 to 8-dec-2021,10 days, Sri Krishna College of arts and science
- FDP **Research Development Programme For Faculty in Recent Trends** 09.08.2021 to 13.08.2021,Five Days, SRM Institute of Science and tech.
- FDP **Research methodology** 10/3/2018,1 day, Rathinam College of arts and science
- FDP Python programming and machine learning ,25,26 june 2020 2days, KCS CAS
- FDP Identifying online resources for writing research papers 13,14 June 2020,1 day, Viyas holistic Academy
- FDP Drupal (Open Source Content Management System) 11-05-2020 to 15-05-2020 5 days, SNMV CAS with Spoken Tutorial Project, IIT Bombay

- International FDP **Enhancing your IT skills during quarantine** 18-23 may 2020 ,6 days, Bishop Appasamy CAS
- FDP Unlock your teaching skills via ICT Tools,24/5/2020 1 day, APA college
- FDP Five Days National Level FDP on "**Artificial Intelligence and Cloud Services** 31-10-2022 to 04-11-2022,5 Days, Sri Ramakrishna CAS
- National Level Virtual FDP **Recent Trends in Research Methodologies and Tools** 10.10.2022 to 14.10.2022,5 Days, KG CAS
- FDP Contemporary Innovative Tools for Learning and Teaching,23/12/2022   One day , SNMV CAS
- National Virtual FDP **Ethics in Research & Research Methodology**,19/12/2022 to 26/12/2022,8 days, KG CAS
- National Virtual FDP **Recent trends in research methodologies and tools**,10.10.2022 to 14.10.2022,5 days, KG CAS
- FDP on **Entrepreneurship and Teaching Methodology**,12 to 18/07/2023,5 Days, SNMV CAS with Whadwani Foundation
- International Webinar Research Tools and Methodologies,7/6/2023 to 13/6/2023,5 days
- FDP **Recent Research trends and challenges** 14/9/2023 to 19/9/2023,5 days, KG CAS
- FDP **Data science specialization using Python**,10/7/14/7/2023,5 days, Novitech R & D
- FDP on **Data Science and Analytics** by ICT Academy,Data Science and Analytics,Jun 5 2017 to Jun 9 2017,Five Days KPR IET
- **Greening Program** at Institute of Forest Genetics and Tree breeding Greening Program9-Nov-17 One Day,Institute of Forest Genetics and Tree breeding
- FDP on **Research Methodology** Research Methodology ,10-Mar-17 One Day,Rathinam CAS
- One day **Faculty Enrichment Program** , 28-May-19 One Day   SNMV CAS
- FDP **Android App Developmen**t in Hindustan CAS ,2-Mar-19,One Day Hindustan CAS
- Five days FDP International Webinar series on **Research Tools and Methodologies**, 07/06/2023 to 13/06/2023 at Sri Krishna Aditya college of arts and science
- Seven days National level FDP on Digital Transformation of Technology, 20/09/2023 to 27/09/2023, Hindustan college