

**Name** : Dr. V. Pream Sudha  
**Designation** : Professor & HoD i/c  
**Department** : Computer Science with Data Analytics  
**Qualification** : MCA., M.Phil, Ph.D  
**Experience** : Teaching : 23 Years Industry : - Research : 7  
**Area of Specialization(s)** : Data Mining  
**Email (Official ID)** : preamsudha@drngpasc.ac.in



#### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	PSGR Krishnammal College for Women, Coimbatore	2020
M.Phil.	Computer Science	Bharathidasan University	2005
MCA	Computer Applications	Bharathiar University (Regular)	2001
BSc	Mathematics	PSGR Krishnammal College for Women, Coimbatore	1998

#### Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Diploma	RPA Design and development V2.0	UiPath	2021
Certification	Data Science with Python	Great Learning	2021
Certification	Cybersecurity for Beginners	Udemy	2022
NPTEL	Big Data Computing	IIT Kanpur	2022

#### Projects Completed

Project Title	Agency	Amount	Duration
Detection and Classification of Diseases in Turmeric (Curcuma Longa) grown in Coimbatore District using Machine Learning	UGC	Rs. 2,78,000	2014 - 2016

## Research Publications (Indexed)

### International

- Dr. F.Mary Magdalene Jane, Dr. V. Pream Sudha, Deep learning approach to identify abnormalities in blood cell images, International Journal of Health Sciences, Vol.6 June 2022, ISSN 2550-6978
- V. Pream Sudha, Vijaya M S, “Recurrent Neural Network Based Model for Autism Spectrum Disorder Prediction using Codon Encoding”, Journal of The Institution of Engineers (India): Series B, 2021, DOI : 0.1007/s40031-021-00669-4 (**Scopus**)
- V. Pream Sudha, Vijaya M S, “ Prediction of Gene Susceptibility to Autism Spectrum Disorder Using Deep Architectures”, International Journal of Scientific and Technology Research, 2020, ISSN: 2277-8616. (**Scopus**)
- V. Pream Sudha, Vijaya M S “Gated Recurrent Neural Network for Autism Spectrum Disorder Gene Prediction”, International Journal on Emerging Technologies, 2020, ISSN: 0975-8364, Vol 11(1) (**Scopus**)
- V. Pream Sudha, Vijaya M S, “Recurrent Neural network based model to predict autism spectrum disorder causative genes”, International journal of Advanced science and technology, 2019, ISSN: 2207-6360 (**Scopus**)
- V. Pream Sudha, Vijaya M S, “Deep Learning Based Prediction of Autism Spectrum Disorder using Codon Encoding of Gene Sequences” International Journal of Engineering and Advanced Technology, 2019, ISSN: 2249 – 8958 (**Scopus**)
- V. Pream Sudha, Vijaya M S, “Identification of Autism Spectrum Disorder using a MultiLabel Approach”, Journal of Advanced Research in Dynamical & Control Systems, 2019, ISSN: 1943-023X (**Scopus**)
- V. Pream Sudha, Vijaya M S, “Decision Tree Based Model for the Classification of Pathogenic Gene Sequences Causing ASD”, Smart Trends for Information Technology and Computer Communications, ISBN: 978-981-13-1423-0, 2018 (**Springer**)
- V. Pream Sudha, Vijaya M S, “Machine Learning-Based Model for Identification of Syndromic Autism Spectrum Disorder” Integrated Intelligent Computing, Communication and Security, 2018, ISBN: 978-981-10-8797-4 (**Springer**)

### Other Publications: International / National Journals

- Pream Sudha V, “Feature Selection Techniques for the Classification of Leaf Diseases in Turmeric”, International Journal of Computer Trends and Technology, 2017, ISSN: 2231-2803
- Pream Sudha V, Vijaya MS, Nandhini M, “Identification and Classification of Leaf Diseases in Turmeric Plants”, International Journal of Engineering Research and Applications, 2016, ISSN: 2248-9622

- V. Pream Sudha, R.Kowsalya, “A Survey on Deep Learning Techniques Applications and Challenges”, International Journal of Advanced Research In Science And Engineering, 2015, ISSN: 2319-8354
- V. Pream Sudha, Dr. M. S. Vijaya, “Research directions in Social Network Mining with Empirical Study on Opinion Mining”, CSI Communications, Volume 37, Issue 9, Dec 2013, ISSN No.0970-647X
- V Pream Sudha, G Manimekalai, K Sathiyakumari, A comparative study of fuzzy models in document clustering, International Journal on Computer Science and Engineering, 2012
- V.Pream Sudha, G.Manimekalai, K.Sathiyakumari, Unsupervised approach for document clustering using modified fuzzy C mean algorithm, International Journal of Computer & Organization Trends,2011
- V.Pream Sudha, G.Manimekalai, K.Sathiyakumari, A Survey on Various Approaches in Document Clustering, International Journal of Computer Technology and Applications,2011
- V Pream Sudha, C Deepa, K Sathiya Kumari, A Tree based model for High performance concrete Mix Design, International Journal of Engineering Science and Technology, 2010
- V Pream Sudha, C Deepa, K Sathiya Kumari, , Prediction of the Compressive strength of high performance concrete mix using tree based modeling, International Journal of Computer Applications, 2010
- V. Pream Sudha, K. Sathiyakumari, A Comparative Study of Machine Learning Algorithms Applied to Predictive Diabetes Data, CiiT International Journal of Data Mining and Knowledge Engineering, 2009

#### **Book Publications**

- AI and Machine Learning for Detecting Turmeric Leaf Diseases, Dr. V. Pream Sudha, Dr.K. Sathiyakumari, Lambert Academic Publishing, 2025
- Big Data Analytics Lab manual, Dr. Pream Sudha V, Dr. Vijaya MS, Dr. Radha.N, Amazon Kindle, 2019
- FAQs in Big Data, Dr. Pream Sudha V, Amazon Kindle, 2019
- Test your skills in PHP, Dr. Pream Sudha.V, Dr. Vijaya MS, Dr. Radha.N, Amazon Kindle, 2019

#### **Presentations in Conference**

- Thalaseemia Prediction using Deep Neural Networks: A Step towards Personalized Medicine, International Conference on Machine Learning and Automated Systems, Stamford International Univeristy, Thailand, March 2025

- Automated Tuberculosis Detection using Convolutional Neural Networks: A Comparative Study, International Conference on Computational Intelligence and Communication Technologies, Dr.NGP Arts and Science College, 2025
- AI Driven Financial Security and Fraud Detection, National Conference in Artificial Intelligence and Soft Computing, Bannari Amman Institute of Technology, 2024
- Chronic Kidney Disease Prediction using Machine Learning, International Conference on Computational Intelligence and Communication Technologies, Dr.NGP Arts and Science College, 2024
- Product Sales Forecasting using Online Reviews and Historical Sales Data, National Conference on Advanced Computing Sciences, Dr.N.G.P Arts and Science College 2023
- Sentiment Analysis of Youtube Videos, National Conference on Advanced Computing Sciences, Dr.N.G.P Arts and Science College 2023
- A study on Intelligent Automation : The future of Human - Bot interaction, National Conference on Applications of Intelligent Robotic Process Automation, PSGR Krishnammal College for Women, 2022
- Bidirectional Recurrent Neural Networks to predict Autism Spectrum Disorder, International Conference on Computational Intelligence, Cybersecurity and Computational Models, PSG College of Technology, 2019
- Decision Tree Based Model for the Classification of Pathogenic Gene Sequences Causing ASD, Second International Conference, SmartCom 2017, Pune 2017
- Machine Learning Based Model for Identification of Syndromic Autism Spectrum Disorder, International Conference on Integrated Intelligent Computing, Communication and Security, SJB Institute of Technology, Bangalore 2017

#### **Participation in Workshop**

- NEP-2020 : Opportunities and Challenges of HEIs in Achieving Gross Enrolment Ratio (GER) in Creating Human resources to the Paradigm Industry Requirements, 16, Feb 2024
- Machine Learning Techniques, Coimbatore Institute of Technology, Coimbatore, 3-4, Jan 2020

#### **Participation in Orientation Programme / Short Term Courses**

- Data Science Essentials for Business Leaders conducted by CII, 11 -18 Jan, 2023
- AICTE ISTE sponsored Refresher programme on Feature Analysis Using AI / ML, Sri Krishna College of Engineering and Technology, Coimbatore, 7 – 12 Dec, 2020

#### **Participation in Faculty Development Programme**

- Microsoft Azure AI Engineer, E&ICT Academy, 3 Feb - 7 Feb, 2025
- Innovative Trends in Artificial Intelligence for Teaching and Research, PSGR Krishnammal College for Women, 27- 31 Jan 2025
- Exploring New Frontiers in Teaching Tools, AI and Data Analytics, MEASI Institute of Information Technology, 29 July- 2 Aug 2024
- Outcome Based Education, Dr.NGP Arts and Science College, 17<sup>th</sup> June – 21st June, 2023
- Empowering Education for Innovation – A NEP Perspective, Dr.NGP Arts and Science College, 30 June – 04th July 2023
- Digital Transformation, Data Fabric and Industrial Insight 2023, PSG College of Arts and Science, 01 April 2023
- Outcome Based Education, Dr. N.G.P Arts and Science College in association with IPSR Solutions, 04 March 2023
- Data Science, PSGR Krishnammal College for Women, Coimbatore in association with EICT Academy-IIT, Kanpur, 19- 30 April 2021
- Research and Application Perspectives of Artificial Intelligence, KPR Institute of Engineering and Technology, Coimbatore , June 2021
- Machine Learning and Cloud Infrastructure, Jeppiar Engineering College, 6-10 July, 2020
- Artificial intelligence and Data Science, Oriental Institute of Science & Technology, Bhopal, 10 -14, June 2020
- Writing Quality Publication with Quantitative Metrics, PSGR Krishnammal College for women, Coimbatore, 29 June 2020
- R programming Spoken Tutorial Project, IIT Bombay conducted remotely at Sri Krishna Arts and Science College, Coimbatore, 19-24, April 2020
- Disruptive Technologies , Computer Society of India, 15 Oct 2019
- Big Data Analytics, SSN College of engineering, Chennai, 19-20, 2013

#### **Conference / Seminar / Workshop Organized**

- Organizing Secretary, International Conference on Computational Intelligence and Communication Technologies, Dr.NGP Arts and Science College, 3 Jan 2025
- Organizing Secretary, International Conference on Computational Intelligence and Communication Technologies, Dr.NGP Arts and Science College, 4 Jan 2024
- Convenor, National Conference on Advanced Computing Sciences, Faculty of Computer Science, Dr.NGP Arts and Science College, 16, March 2023

- Executive Committee Member, National workshop on Artificial Intelligence in Genomic Analysis, Department of Computer Science (PG), PSGR Krishnammal College for Women, Coimbatore, 03–04 Feb, 2020
- Executive Committee Member, National workshop on Cybersecurity and Cyberforensics, Department of Computer Science (PG), PSGR Krishnammal College for Women, Coimbatore, 09–10 Jan, 2019
- Executive Committee Member, National Workshop on Predictive Analytics of Environmental Changes in Remote Sensing, Department of Computer Science (PG), PSGR Krishnammal College for Women, Coimbatore, 22-23 Jan 2018
- Executive Committee Member, National workshop on Big Data Analytics – Techniques and Tools, Department of Computer Science (PG), PSGR Krishnammal College for Women, Coimbatore, 10-12 Jan 2017
- Executive Committee Member, National workshop on Data Analysis in Wireless Sensor Networks - Tools and techniques, Department of Computer Science (PG), PSGR Krishnammal College for Women, Coimbatore, 28-29 Jan, 2016

#### **Invited Speaker / Session Chair- Conference / Seminar / Workshop**

- Session Chair, National Conference on Emerging Trends and Opportunities in Augmented, Virtual and Mixed Reality at PSGR Krishnammal College for Women, 24 Feb 2025
- Session Chair, National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective, 4 - 5 July 2024
- Doctoral Committee member at PSGR Krishnammal College for Women, 6 Feb 2024
- Resource Person, Guest Lecture on Information Retrieval, Department of Data Analytics, PSGR Krishnammal College for Women, 8-Aug-2023
- Interview Panel Member, Staff Recruitment of Computer Science Faculty at Sree Narayana Guru College, 19 June 2023
- Resource person, Guest Lecture on Recent Trends in Information Retrieval, Department of Data Analytics, PSGR Krishnammal College for Women, 3-Jan-2023
- Resource person, Symposium on Tech Startups and Innovation on Education and Economic Growth, PSG College of Arts and Science, 16- Nov-2022
- Resource person, DBT sponsored webinar on Impacts of Machine learning, Hindusthan College of Arts and Science, Coimbatore, 24-Mar-2021
- Resource person, National level workshop on Research Methods and Research Directions in Computer Science , PSGR Krishnammal College for Women, 19-Feb-2015

### Member in BoS

- Board of B.Sc Computer Science with Data Analytics, NGM College, Pollachi during 2022-24
- Board of M.Sc Computer Science, SDNB Vaishnav College, Chennai during 2019-21
- Board of M.Sc Computer Science, PSGR Krishnammal College for Women, 2015-2021
- Board of M.Sc Information Technology, PSGR Krishnammal College for Women, 2015-2018
- Board of M.Sc Data Analytics, PSGR Krishnammal College for Women, 2017-2021

### Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
IAENG	Lifetime	
ISACA		

### Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Best Paper Award	PSG College of Technology, Coimbatore	2019