

**Name** : Dr. V. Pream Sudha  
**Designation** : Professor  
**Department** : Computer Science with Data Analytics  
**Qualification** : MCA., M.Phil., Ph.D.  
**Experience** : Teaching: 20 Years 1 month    Research: 7 Years  
**Area of Specialization(s)** : Data Mining  
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### 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

### Projects

#### Completed

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

## Research Publications (Indexed)

### International

- 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**

- 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**

- 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, SJBIT Institute of Technology, Bangalore, 2017

#### **Participation in Workshop**

- Machine Learning Techniques, Coimbatore Institute of Technology, Coimbatore, 3-4, Jan 2020

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

- 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**

- 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**

- 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**

- 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 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 Data Analytics, PSGR Krishnammal College for Women, 2017-2021

#### **Membership in Professional Bodies**

<b>Name of the Professional Body</b>	<b>Nature of membership</b>	<b>Duration</b>
Computer Society of India	Annual	2017-20

#### **Awards / Honors**

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