Name : **Santhana Lakshmi V**

Designation : **Assistant Professor**

Department : **Department of Computer Science with Data Analytics**

Qualification : **M.Sc., M.Phil., Ph.D.**

Experience : Teaching – Years | Research – Years | Industry - Years

Specialization: Data Mining, Machine Learning

Email *(Official)* : drsanthanalakshmi.v@ngpasc.ac.in

Academic Qualifications

Degree	Branch	Institution / University Name	Year
Ph.D.	Computer Science	PSGR Krishnammal College for Women	2025
M.Phil.	Computer Science	PSGR Krishnammal College for Women	2011
M.Sc	Information Technology	Gandhigram Rural University	2007
B.Sc	Computer Science	M.V.M Government Arts and Science College	2005

Additional Qualifications

Dip. / Cert.	Area of Specialization	Institution / Agency Name	Year
Certificate	**Apache Spark 3.0**	Databricks	2023
Certificate	Generative AI	GCP	2024
Certificate	Remote Sensing and Digital Image Processing of Satellite Data	NPTEL	2018
Certificate	Data Mining	NPTEL	2018

Projects

Project Title	Agency	Amount	Period	Status
College Admission Chatbot	GRG Trust	30000	Sep 2019 - Feb 2021	Completed

Research Publications

Velusamy, Santhana & Shanmugam, Vijaya. **Leveraging Pretrained Transformers for Enhanced Air Quality Index Prediction Model**. Bulletin of Electrical Engineering and Informatics. 14. 625-637, 2025, 10.11591/eei.v14i1.7968. (Indexed in Scopus).

Santhana Lakshmi V, Vijaya M. S, **An Intelligent Deep Learning based AQI Prediction Models using Pooled Features**, Journal of Theoretical and Applied Information Technology, Vol.102(1),2024,pp.12-28, 2024 (Indexed in Scopus).

Santhana Lakshmi V, Vijaya M. S, **Air Quality Index Prediction Model using Temporal Fusion Transformer**, International Journal of Intelligent Systems and Applications in Engineering. Vol.12(14), pp.418-429, 2024.

Lakshmi, S., & Vijaya, **S. Exploratory Data Analysis on Air Quality Data and AQI forecasting model using deep learning,** European Chemical Bulletin, 12, 2016–2028, 2023.Santhana Lakshmi V and M.S. Vijaya. **A Study on Machine Learning based Approaches for PM2.5 Prediction**, Lecture Notes on Data Engineering and Communication Technologies, pp. 163-175, 2022 (Indexed in Scopus).

Santhana Lakshmi V and M.S. Vijaya. **An Exploratory Data Analysis on Air Quality Data of Trivandrum**, Lecture Notes in networks and Systems, pp.789-806, 2023 (Indexed in Scopus).

Lakshmi, V.S., Vijaya, M.S. **Feature Selection Techniques for Building Robust Air Quality Prediction Model.** In: Lanka, S., Sarasa-Cabezuelo, A., Tugui, A. (eds) Trends in Sustainable Computing and Machine Intelligence. , 2024 https://doi.org/10.1007/978-981-99-9436-6_13 (Indexed in Scopus).

V. Santhana Lakshmi, M.S. Vijaya, **Efficient Prediction of Phishing Websites using Supervised Learning Algorithms**, Procedia Engineering, Vol 30, PP 798-805, 2012, ISSN 1877-7058,https://doi.org/10.1016/j.proeng.2012.01.930 (Indexed in Scopus)

Santhana Lakshmi V, Vijaya M S, **The SVM based Interactive Tool for Detecting Phishing Websites**, International Journal of Computer Science and Information Security(IJCSIS) Vol. 9 No. 10, October 2011 ISSN 1947-5500

Books/ Book Chapters Publication

Test your skills in C++, V.Santhana Lakshmi, R.Kowsalya, Amazon Kindle, 2019

Machine Learning with R - Lab Manual: Step-by-Step guide for executing Machine Learning algorithms using R, V. Santhana Lakshmi, 2019

Presentations in Conference/ Seminar

Feature Selection Techniques for Building Robust Air Quality Prediction Model. In: Lanka, S., Sarasa-Cabezuelo, A., Tugui, A. (eds) Trends in Sustainable Computing and Machine Intelligence. ICTSM 2023, 05-Oct-2023 and 06-Oct-2023.

An Exploratory Data Analysis on Air Quality Data of Trivandrum, 7th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2022), 09-Dec-2022 and 10-Dec-2022.

A study on Machine Learning based approaches for PM2.5 prediction, 3rd International Conference on Sustainable Communication Networks and Application ICSCN 2021, 29-Jul-2021 and 30-Jul-2021.

An Efficient Approach to Predict student's performance using supervised learning algorithms, Two-Day seventh National Conference on Innovations in Information Technology, 25-Feb-2016 and   26-Feb-2016

Various phishing attacks and supervised learning techniques used for detecting phishing scams, National Conference on Recent Advances in Neural Networks, Gobi Arts and Science College, Gobichettipalayam, 04-Mar-2011 and 05-Mar-2011

Efficient Prediction of Phishing Websites using Supervised Learning Algorithms, International Conference on Communication Technology & System Design, 07-Dec-2011 till 09-Dec-2011

Predicting the risk level of hepatitis in patients using classification algorithms,
National Conference on Recent Advances in Statistics and Computer Application, Bharathiar University,21-Dec-2010 till 23-Dec-2010

Participation in Conference/Seminar

National Level Seminar on Applying Modern Deep Learning Techniques to Natural Language Processing, Dr. N.G.P institute of Technology, 19-Dec-2019

National Conference on Recent Advances in Neural Networks organised by Kongu Engineering, College, Perundurai.

Emerging   Technologies and its Applications   in Computers, Department of Computer Applications, PSG College of Technology, 31-03-2017 and 01-Apr-2017

Recent Trends in Information Technology, National Seminar on Recent trends in Information Technology, 11-Oct-2012

International Conference on Computational Intelligence(ICCI 2010), PSGR Krishnammal College for Women, Coimbatore, 09-Dec-2010 till 11-Dec-2010

Participation in Faculty Development Programme

Computational Biology and Bioinformatics using Python, PSGR Krishnammal College for Women, 31-Jan-2019

Internet of Things, PSGR Krishnammal College for Women, 28-Aug-2018

Biocomputational Methods using PYTHON & PERL, PSGR Krishnammal College for Women, 06-Mar-2018

Datascience and Bigdata Analytics, ICT Academy, 18-Feb-2017 till 18-Feb-2017

Introduction to Bigdata Analytics, ICT Academy, 18-Feb-2017 till 18-Feb-2017

Participation in Workshop

Industry Conclave and Hands on Workshop on Deep Learning, PSG College of Technology, 09-Aug-2019 and 10-Aug-2019

Two Days Workshop on Devops Tool, Sri Ramakrishna Engineering college,coimbatore, 08-Mar-2019 and 09-Mar-2019

Two Days National Level Workshop on Artificial Intelligence and Deep Learning, PSG College of Technology, 23-Jun-2018 to 24-Jun-2018

One Day Workshop on Machine Learning with Python, 24-Feb-2018

Two Days National Level Workshop on Ethical Hacking, Rathinam College of Arts and Science, 24-Feb-2017 and 25-Feb-2017