

Name : Mrs. P. SHANTHI

Designation : Assistant Professor

Department : Artificial Intelligence & Machine Learning

Qualification : MCA., M.Phil., M.Sc (Mathematics)., NET

Experience : Teaching: 19.10 Years Research: 11 years
Industry: NIL



Area of Specialization(s) : Data Warehousing and Mining

Email (Official ID) : shanthi.p@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	Pursuing
M.Phil	Computer Science	Madurai Kamaraj University	2009
MCA	Computer Application	Bharathidasan University	2002
M.Sc	Mathematics	Bharathiar University	2015
B.Sc	Mathematics	Kongunadu Arts & Science College	1999

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
NET	Computer Science	UGC	2013
Certification	Computer Science	IIT MadrasNPTEL Introduction to Machine Learning	2024
		NPTEL, AICTE Programming, Data Structures and Algorithms using Python	2024
		IIT Khanpur, NPTEL Big Data Computing	2021

Patent

Title	Status	Year
Prediction of Water flow Depth using Machine Learning	Published	2025

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
M. Phil.	16	-

Research Publications

- Dr. M. Omprakash, Mrs. K. R. Prabha, Mrs. P. Shanthi, Dr. K. Santhi, Dr. M. Sangeetha, **Computer Vision in Medical Imaging Detecting Tumors using AI Powered Image Processing**, The Bioscan, International Quarterly Journal of Life Sciences, Volume 20, Issue No. 1, pp. 651-655, March 2025,
- P. Shanthi, **A Survey of the Computational Intelligence Techniques for Big Data**, Tuijin Jishu/Journal of Propulsion Technology, Volume 44, Issue No. 6, pp. 6098-6109, February 2024, ISSN: 1001-4055. (Indexed in Elsevier Scopus, Google Scholar).
- S. Sasikala, P. Shanthi, **Early Prediction of Heart Attack Using ENN TLBO Classifier**, International Journal of Innovative Research in Computer and Communication Engineering, Volume 9, pp. 135-140, January 2021.
- S. U. Nivethitha, P. Shanthi, **An Enhanced Kuhn Munkres Algorithm for Improving Computational Performance**, International Journal for Research in Applied Science & Engineering Technology, Volume 6, pp. 770-773, October 2018. (Indexed in Google Scholar).
- R. Shanlini, P. Shanthi, **An Efficient Deduplication Process of Load Balancing Method in Cloud Storage**, International Journal for Research in Science Engineering and Technology, Volume 3, issue 11, pp. 18-27, November 2018.
- R. Kavipriya, P. Shanthi, **Proficient Mining and Suggestions In Online By Means Of User Behavior**, International Journal of Advance Research, Ideas and Innovations in Technology, Volume 3, pp. 711-718, 2017. (Indexed in Google Scholar).
- J. Radha, P. Shanthi, **Enhancing the Cluster Head Node Selection Representation in MANET**, International Journal for Research in Science Engineering and Technology, Volume 3, pp. 28-34, November 2016.
- S. Arokia Mary, P. Shanthi, **Features based opinion mining on online mobile products using data mining classification techniques**, Indian Journal of Innovations and Developments, Volume 5, pp. 1-9, September 2016.
- P. Shanthi, P. Maheswari, **Efficient Intelligent Virtual Agents for Developing Game Application Using PRS Engine**, International Journal of Science and Research (IJSR), Volume 3, Issue 8, August 2014.
- B. Thenmozhi, P. Shanthi, **Clustering Medical Data Using Subspace and Parallel Approximation Algorithm**, International Journal of Science and Research, Volume 3, pp. 820-824, March 2014. (Indexed in Google Scholar).
- P. Shanthi, K. Saraswathy, **A Distributed Intelligent Framework for Handling Dynamically Arriving Information**, International Journal of Science and Research (IJSR), Volume 2, Issue 11, November 2013.

Books /Book Chapters Publication

- **Internet of Things Principles**, Dr. Lakshman Kumar Kanulla, Dr. Vasanthi V, Dr. Geetha Manikanta Jakka, Mrs. P. Shanthi, SKRGC Publications, Madurai, March 2023, ISBN NO: 978-93-95341-54-7.
- **Recent Trends in the Field of Computer Science and Information Technology, AI in Agriculture**, Charulatha Publications, December 2023, ISBN No: 978-93-5677-685-3.

Presentations in Conference

- **Harnessing AI and IOT for Sustainable Agriculture: Innovations in Resource Management**, National conference on Emerging Technologies in Computer Science, Kovai Kalaimagal College of Arts and Science, Coimbatore, January 2025.
- **A Novel Framework for Nutrient Based Plant Disease Prediction with Machine Learning**, International conference on Computational Intelligence and Communication Technologies, Dr. N.G. P Arts and Science College, Coimbatore, January 2025.
- **Emerging Trends in Next Generation Information Science**, National conference on Next gen information science, communication and technology (NGISCT'24), SRM Institute of Science and Technology, October 2024.
- **Deep Learning for Ocean Oil Spill Detection**, National Conference on emerging trends in Artificial Intelligence, Sengamala Thayaar Educational Trust Women's College, February 2024.
- **Dependency Optimization using Machine Learning Approach for Test Case Prioritization**, National Conference- Research Issues in Soft Computing, Rathinam College of Arts & Science, Coimbatore.
- **Reducing the Time Delay of Backbone Networks**, National Conference – Innovative Intelligence in Computer Technology, Adithya Institute of Technology, Coimbatore.
- **Fast Query Point Technique with Sufficient Feature Extraction for CBIR Systems**, National Conference – Computer Applications in Service Sector: Models & methods, Dr. NGP Arts & Science College, Coimbatore.

Participation in Orientation Programme/ Short Term Courses

- **Java Full Stack with React JS & AI**, KG College of Arts and Science, in association with Brainovision Solutions India Pvt Ltd, Hyderabad, 02-Dec-24 to 22-Dec-24.
- **Data Science and Big Data Analytics**, Avinashilingam Institute for Home science and Higher Education for Women, 14-Jun-21 to 19-Jun-21.
- **R Programming**, Sona College of Technology, semester funded by the National Mission on Education through ICT, MHRD, Govt. of India and Spoken Tutorial Project, IIT Bombay, Jan-20.

- **Python Programming**, Department of Information Technology, Sona College of Technology with Spoken Tutorial Project, IIT Bombay, Salem, 18-May-20 to 22-May-20.

Participation in Faculty Development Programme

- **Introduction to machine Learning**, 12 weeks organized by IIT Madras, NPTEL, September 2024.
- **Programming, Data Structures and Algorithms using Python**, 8 weeks organized by NPTEL, AICTE, March 2024.
- **National Workshop on NEP 2020: Opportunities and Challenges of HEIs in Achieving Gross Enrolment Ratio (GER) in Creating Human Resources to the Paradigm Industry Requirements**, Dr.N.G.P. Arts and Science college, 16-Feb-24.
- **Data Visualization**, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, 29-Jan-24 to 03-Feb-24.
- **Developing Human Potentials in Emerging Technologies in Computer Science**, Kongunadu Arts and Science College, Coimbatore, 04-Sep-23 to 16-Sep-23(12 Days).
- **Cloud Infrastructure (AWS)** , One Week National Level, KG College of Arts and Science, Coimbatore, from 21-Aug-2023 to 25-Aug-2023.
- **Data Science Specialization using Python**, Department of Computer Science, Dr. SNS Rajalakshmi College of Arts and Science, Coimbatore, 19-Jun-23 to 23-Jun-23.
- **Data Visualization**, Department of Computer Studies (CS / CA / IT / CT / CGS & AIML), Coimbatore, Tamil Nadu, India 13-Mar-23 to 20-Mar-23(6 Days).
- **National Educational Policy-Challenges and Opportunities in Higher Education**, Department of Microbiology and Centre of Excellence for Faculty Development, Hindusthan College of Arts & Science, Coimbatore, 13-Feb-23 to 21-Feb-23.
- **Personality Grooming - Handling Stress and Emotional Intelligence**, IQAC & Department of Commerce with Information Technology of PPG College of Arts and Science, Coimbatore, Tamilnadu, 02-Jan-23 to 06-Jan-23.
- Virtual PDP on **DATA SCIENCE : A REVELATION OF THE MODERN DIGITAL ERA**, Department of Computer Science & Applications (MCA), SRM Institute of Science & Technology, Ramapuram Campus, 29-Aug-22 to 10-Sep-22(Two Weeks).
- **Next Generation Computing : Key Trends, Challenges and Opportunities**, Department of Computer Science & Applications (MCA), SRM Institute of Science & Technology, Ramapuram Campus, 18-Apr-22 to 23-Apr-22(One week).
- **Emerging Trends and Challenges in Higher Education and Research**, IQAC of Prince Shri Venkateshwara Arts and Science College, Gowrivakkam, Chennai, 18-Apr-22 to 22-Apr-22.

- **Research Article Writing and Publishing**, Department of Computer Science and Commerce, Sri Jayendra Saraswathy Maha Vidyalaya College of Arts and Science, Coimbatore in collaboration with Atal Bihari Vajpayee Trust, ABHAV Foundation, Bilaspur, Chattisgarh, 25-Oct-21 to 29-Oct-21.
- **Introduction to Python Programming (Online Live FDP), ICT Academy**, 27-Sep-21 to 01-Oct-21.
- **Artificial Intelligence & Machine Learning**, School of Computer Science, PPG College of Arts and Science, Coimbatore, 28-Jul-21 to 05-Jul-21 (7 Days).
- **INDUSTRIAL REVOLUTION 4.0: EMERGING TRENDS IN INFORMATION TECHNOLOGY**, School of Computer Science, PPG College of Arts and Science, 21-May-21 to 28-May-21 (7 Days).
- **IOT-APPLICATIONS**, Vikas Group of Institutions, Andhra Pradesh, 01-Jun-20 to 05-Jun-20.
- **Technologies for Transformation (ICT in Education, Data Analytics using R, Data Visualization using Tableau, Machine Learning, AI and its components)**, Sri Jayendra Saraswathy Maha Vidyalaya College of Arts and Science, Coimbatore, 01-Jun-20 to 05-Jun-20.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
International Association of Engineers (IAENG) Member ID: 309493	Life time	-
All India Council For Technical Skill Development (AICTSD) Member ID: AICTSD/Professor/66953	Life time	-