Basic Details:

- **Name:** Dr. S. Parthasarathy
- **Designation:** Assistant Professor
- **Phone Number:** 9840627606
- **Email ID:** parthass@srmist.edu.in
- **Area or Subject:** Mathematics
- **Affiliation:** SRM Institute of Science and Technology, Department of Mathematics, Ramapuram Campus.

Educational Details:

- **Degree, University, Awarded Year:**
  - B. Sc. – Arumugam Pillai Seethai Ammal College, Thirupathur, Sivaganga District, Madurai Kamaraj University, 2002-2004
  - M. Sc. – Alagappa Arts and Science College, Karaikudi, Sivaganga District, Alagappa University, 2004-2006
  - M. Phil. – Alagappa University,2006- 2007
  - Ph. D. – Manonmaniam Sundaranar University, Tirunalveli.

Research Interests:

Machine Learning, Statistics

Publications:

1. Parthasarathy Sundararajan**, A Comparative Study of Life Time Models in the Analysis of Survival Data,** Indian Journal of Applied Research - January 10, 2014.

   https://www.researchgate.net/publication/274180575_A_Comparative_Study_of_Life_Time_Models_in_the_Analysis_of_Survival_Data

2. Parthasarathy Sundararajan**, Software Reliability Analysis Using Lifetime Distributions,** ARPN Journal of Engineering and Applied Sciences - January 10, 2016. http://www.arpnjournals.org/jeas/research_papers/rp_2016/jeas_0116_3374.pdf3.
3. Parthasarathy Sundararajan, **Software Reliability Monitoring Using Gompertz Distribution**, International Journal of Pharmacy & Technology, 2016.

   http://www.ijptonline.com/wp-content/uploads/2016/07/12075-12087.pdf

4. Comparison of Weibull and Bayesian reliability models for software reliability data advances in mathematics: scientific journal 9 - January 5, 2020.

   Research Publication (research-publication.com)

5. A comparative study on the logistic regression and naïve bayes models upon medical data through a machine learning approach - Advances in mathematics: scientific journal 9 - May 31, 2020.

   Research Publication (research-publication.com)

6. Determination of Significant Variables of Medical Data Through Machine Learning Approach - JOURNAL OF CRITICAL REVIEWS - June 29, 2020.

   Journal of Critical Reviews (jcreview.com)

7. Analysis on Classification and Prediction of Leaf Disease using Deep Neural Network and Image Segmentation Technique Annals of R.S.C.B - May 8, 2022.

   Analysis on Classification and Prediction of Leaf Disease using Deep Neural Network and Image Segmentation Technique (researchgate.net)

8. A Study on Rate of Occurrence of Failure using HPP for 225 kw windmill Data Natural Volatiles and Essential Oils - July 7, 2022.

   A Study on Rate of Occurrence of failure using HPP for 225 kw windmill data | NVEO - NATURAL VOLATILES & ESSENTIAL OILS Journal | NVEO

9. Prediction of grape leaf through digital image using FRCNN in ELSEVIER – December 22, 2022.

10. HRSR-SVM: Hybrid Reptile Search Remora-based Support Vector Machine for forecasting stock price movement **P. Matilda Shanthini, S. Parthasarathy,P. Venkatesan & S. Nandhini *International Journal of Information technology*** volume 15**, pages3127–3134 (2023)**

11. IPH^{2}O: Island Parallel-Harris Hawks Optimizer-Based CLSTM for Stock Price Movement Prediction **Linda Joel, S. Parthasarathy, P. Venkatesan & S. Nandhini**

12. An efficient optimal hybrid SVELM based monitoring and forecasting the engine operations for safety Standards - An efficient optimal hybrid SVELM based monitoring and forecasting the engine operations for safety standards - ScienceDirect ELSEVIER. Volume 238, Part A, 15 March 2024, 121679 (ONLINE SEP2023).
13. Automatic screening of retinal lesions for detecting diabetic retinopathy using adaptive multiscale MobileNet with abnormality segmentation from public dataset, Network: Computation in Neural Systems, Taylor and Francis, https://www.tandfonline.com/journals/inet20?src=pdf. Nandhini Selvaganapathy, Saravanan Siddhan, Parthasarathy Sundararajan & Sathiyaprasad Balasundaram
14. Analysis of Monte Carlo Simulation and Randomized Algorithm for Risk and Uncertainty Assessment in SPY ETF Investments, COMPUTER RESEARCH AND DEVELOPMENT (ISSN NO:1000-1239) VOLUME 24 ISSUE 7 2024. 42_CRD2287.pdf
15. Robust weather forecasting Using island parallel Haris Hawks Optimizer with convolutional long short term memory, Journal of Applied mathematics and informatics, Accepted.
16. "Optimizing Gold Price Prediction: Hybrid RSR-SVM Approach", Accepted in the Palestine J. Math. (PJM).
17. "Heart Failure prediction Improvement Using Fuzzy Logic Preprocessing and Random Forest Classifier" Paper Accepted in New Mathematics and Natural Computation, in July 2025.

Book Chapter

1. S Parthasarathy, Professional Career Planning and Decision Making Based on SQL Server Data Mining Techniques, Handbook of Research on Advanced Practical Approaches to Deepfake Detection and Applications, IGI Global, pg.no 305-318

Books

1. DISCRETE MATHEMATICAL STRUCTURES, Scientific International Publishing House, ISBN: 978-93-6674-134-5. Scientific International Publishers

Academic Experience:

- SRM Institute of Science and Technology, Ramapuram, Assistant Professor, from 27.07.2011 to till date
- P.M.R Institute of Science and Technology From May 2007 to 2011 July

Certifications

Introduction to R
Licensed Data Camp professional

Data Science Methodology
Big Data University License (DS005EN) Version #1: Updated June 2015 November 2015

Big Data Analytics - Demos (BD100EN)
Completed Big Data Analytics courses together with lab and exercises

Independent Course works

1. **Data Science Methodology Version #1: Updated June 2015 (DS005EN)**
2. **Introduction to R Version 1: October 2013 (BD801EN)**
3. **The Data Science Course 2022: Complete Data Science Bootcamp on 06/22/2020 as taught by 365 Careers, 365 Careers Team on Udemy.**
4. **Python Programming - From Basics to Advanced level [2022] on 12/26/2021 as taught by EdYoda Digital University, Dipesh Sharma on Udemy.**

Other Details:

- Currently guiding Two Part Time Research Scholars' and Two Full time Research scholars'in Statistics

Achievements and Awards:

- NPTEL Online Certification – Introduction for Python
- NPTEL Online Certification – Engineering Mathematics – I **(Elite)**

Membership:

IAENG (International Association of Engineers)