Dr. S. Sathyapriya, M.Sc., M.Phil., Ph.D.

E-mail: sathyapriya2822@gmail.com

Mobile: +91-9994033751

Education

B.Sc.   - Computer Science, Chidambaram Pillai College, Mannachanallur,
2012-2015   *82%*

M.Sc.   - Computer Science, Holy Cross College (Autonomous), Trichy,

2015-2017   *82%*

M.Phil. - Computer Science, St. Joseph's College(Autonomous), Trichy,

2017-2018   *79%*

Ph.D - Computer Science, St. Joseph's College(Autonomous), Trichy.

Skills

Core skills	: HTML, CSS, SQL
Programming language	: Java, Python, C, JSP, PHP
Tools	: Python IDE, Anaconda, Eclipse, Arduino, Adobe Photoshop, WEKA, RapidMiner
Areas of Interest	: Big Data, Internet of Things, Data Mining, Data Analytics

Achievements

- Got Awards for **Academic Activity and Academic Excellence** (2015).

- **Gold Medalist** in M.Sc. Computer Science at Holy Cross College, Trichy.

- Bharathidasan University **Rank Holder** - M.Sc. (2016-2017).

- Have provided **assistance in the Human Resource Department** at Holy Cross College (2015-2017).

- Got awards in Cultural Activities.

Working Experience

- Worked as an **Assistant Professor** at St. Joseph's College (Autonomous), Trichy – **2 Years 5 months**

Research Experience

Ph.D. Status (2019 – 2022) – Completed

> **Thesis Title**: IoT Semantic Based Deep Learning Models for Diabetes Disease Prediction

M.Phil.:(2017 - 2018)

> **Dissertation Title:** "Prevalence of Diabetes Mellitus in Tiruchirappalli District Using J48 Algorithm"

Worked in a UGC Funded Project

> "Developing Predictive Models to Forecast and Pre - Treat Diabetes Mellitus in Tamil Nadu using Clinical Big Data"(2017 - 2019)

Broad Area of Research : IoT Data Analytics

Specialization : Big Data, Internet of Things, Data Analytics

Patents:

1. Granted Patent UK6420123 for Mental Health Monitoring Device

Papers Publications

1. **S. Sathyapriya**, R. Stephen, and VS Joe Irudayaraj, "**Survey on N-Queen Problem with Genetic Algorithm**", no 2 (2018): 54-59.

2. Jane, V. A., **S. Sathyapriya,** and L. Arockiam. "**IoT Based Architecture for Agricultural Farm Monitoring**", *RETELL*, TIRUCHIRAPPALLI-620 002, TAMIL NADU, INDIA, 2018.

3. **S. Sathyapriya**, Dr. L. Arockiam, A. Dalvin Vinoth Kumar, "**Performance Analysis of Classification Algorithms for Diabetic Prediction using Pima- Indian dataset**", *Journal of Emerging Technologies and Innovative Research (JETIR),* VOl.5, No. 12, pp. 563-569, 2018.

4. Dr. L. Arockiam, A. Dalvin Vinoth Kumar ,**S. Sathyapriya**, "**Prevalence of Diabetes Mellitus in Tiruchirappalli District using Machine Learning**", *International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, No. 2, 2019, pp. 6400 – 6403.***(Scopus Indexed).**

5. Dr. L. Arockiam, A. Dalvin VinothKumar, **S. Sathyapriya, "Prevalence of Type-II Diabetics Association with PM 2.5 and PM 10 in Central Region of Tamil Nadu, India**", *International Journal of Recent Technology and Engineering (IJRTE)*, Vol. 8, No. 2, 2019, pp. 6440-6444.**(Scopus Indexed).**

6. P. KamakshiPriyaa, **S. Sathyapriya,** L. Arockiam ,"**Nutrition Monitoring and Calorie Estimation using Internet of Things (IoT)**", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, Vol. 8, No. 11, 2019, pp. 2669- 2672. **(Scopus Indexed).**

7. P. KamakshiPriyaa, **S. Sathyapriya,** L. Arockiam, "**An Enhanced Decision Tree Ensemble TechniqueFor Obesity Prediction**" in *International Journal of Scientific & Technology Research*, ISSN 2277-8616, Volume-9 Issue-2, February 2020, pp. 1770-1775. **(Scopus Indexed)**.

8. **Sathyapriya, S**., and L. Arockiam, "**Rule Embedded Semantic Ontology Based Classifier For IoT Healthcare**", *Annals of the Romanian Society for Cell Biology*, 2021, pp. 10224- 10231.

9. **Sathyapriya, S**., and L. Arockiam, "**A Review On semantic Technology in IoT Healthcare**", *Annals of the Romanian Society for Cell Biology*,2021, pp. 9810-9819.

10. S. Sathyapriya, Arul Anitha[2] and V. A. Jane[3]* " **Prediction of Heart Disease using AI–Enhanced Naive Ensemble Decision Classifier**" , International Journal of Business and Economics Research (IJBER), 2025, pp. 374-386, e-ISSN: 2455-3921, 2025.

Acted as ResourcePerson

1. Delivered a lecture on **"Commitment"** in Two days workshop on Emerging Trends in IT held at ManpowerGroup DDU- GKY Skills Academy, Chennai on 17.06.2018.

2. Delivered a Lecture on **"IoT Applications"**, in the National level seminar on IoT Applications Design: Issues and Challenges held in Paavai Engineering College, Pachal, Namakkal on 24.01.2019.

3. Delivered a lecture on **"Impact of Social Media"** in the one day Orientation Programme on Life Coping Skills at St. Anne's College of Engineering and Technology, Anguchettipalayam, Panruti on 15th July, 2019.

4. Delivered a lecture on **"Project Development in Integrated Technologies",** in DBT Sponsored Value Added Course on "Recent Technologies for Innovation", at St. Joseph's College (Autonomous), Trichy on 17th December, 2019.

5. Delivered a lecture on **"Big Data"**, to PG students of Computer Science at Holy Cross College, Trichy on 8th January 2021.

6. Delivered a lecture on " **IoT Data Analytics and it's Tools**" to PG students of Data Science at St. Joseph's College , Trichy on 30th March 2021

7. Delivered a lecture on " **Two days Hand on training on IoT Based Smart Applications**" to UG students of Information Technology at National College, Trichy on 17 th February 2023.

8. Acted as a Science **Project Evaluator in National** Children`s Science Congress Meet at Nehru Memorial Collge on 11th November, 2023.

9. Acted as a Resource person in the one day workshop on **IoT Fusion Exploring Mobile sensors, Big Data Analytics and Cloud Connectivity** at Dhanalakshmi Srinivasan College, Trichy on 27th , June, 2024.

Workshop/ ConferenceAttended

1. Participated in the International Conference on "**Global Talent Management in the Digital Era**", on 13th September, 2017 at Fatima College, Madurai.

2. Participated in the workshop on "**Exploring the Power of C – An Interview Perspective**", on 15th September, 2017 at A.V. C College of Engineering, Mayiladuthurai.

3. Participated in the workshop on "**Cloud Computing Services**", on 28th October, 2017 at SrimadAndavan Arts and Science College, Trichy.

4. Participated in the National Level Advanced workshop on "**Effective Strategies in Research Project Proposal Writing and Linking Funding Agencies**", on 23 & 24October, 2017 at Loyola College, Chennai.

5. Participated in the workshop on "**Exclusive through Macros**", on 20th December, 2017 at St. Joseph's College, Trichy.

6. Participated in the National workshop on "**Internet of Tings for Smart Grid**", on 26th August, 2018 at Trichy.

7. Participated in the National workshop on "**How to Write Effective Research Papers for Conferences and Journals& Project Proposals for Funding Agencies**", on 28th September, 2018 at Kongu Engineering College, Erode.

8. Participated in CSIR Sponsored workshop on "**Blockchain and Deep Learning: A Technology for Future Artificial Intelligence**" during 12th &13th October, 2018 at Kongunadu College of engineering & Technology, Namakkal.

9. Participated in the Seminar on "**Research Ethics**", on 15th October, 2018 at St. Joseph's College, Trichy.

10. Participated in the National Level hands - on workshop on "**Deep Learning using MATLAB**", on 30th March, 2019 at PSG College of Technology in association with MathWorks, Coimbatore.

11. Participated in the International Hands - on workshop on "**Machine Learning for Engineers**", from 12-04-2019 to 13-04-2019 at PSG College of Technology in association with MathWorks, Coimbatore.

12. Participated in the AICTE Training And Learning (ATAL) Academy FDP on "**Data Sciences**" from 16-09-2019 to 20-09-2019 at Anna University Regional Campus, Coimbatore.

13. Participated in the seminar on "**Dynamics on Research Quality**" on 15th October, 2019 at St. Joseph's College (Autonomous), Tiruchirappalli.

14. Participated in the International Conference on "**Innovative Intelligent Computing and Applications**", on 28th August, 2019 at Idhaya College for Women, Kumbakonam.

15. Participated in the three days faculty development programme on "**Deep Learning Application - Design , Development and Deployment in IoT Edge**" from 27th and 29th May, 2020, at SRM TRP engineering College, Trichy.

16. Participated in the Faculty Development Program on "**Machine Learning Algorithms**" on 13th May, 2020, at Dawaraka Doss Goverdhan Doss Vaishnav

College, Arumbakkam, Chennai.

17. Participated Five Days online Faculty Programme on "**Python Programming**", from 18th and 22nd May 2020 at Sona College of Technology, Salem.

18. Participated in the webinar "**Development of Deep Learning Architecture**" on 25th, May 2020 by IETE - Mumbai in Association with PANTECH.

19. Participated in the course of "**R Programme**" on 14th and 16th May, 2020, at Sona College of Technology.

20. Participated in the webinar "**Machine Learning** " by PG & Research Department of Mathematics, Loyola College, Chennai, during 15-16 June, 2020.

21. Participated in the webinar "**IoT Applications to Fight Against COVID −19 Pandemic** " by UG Department of Comuter Applications, Bisho Hebr College, Trichy on 17th July, 2020.

22. Participated in the state level webinar "**Recent Trends in Mathematical Modelling**" organized by PG & Research Department of Mathematics, Mannar Thirumalai Naicker College, Madurai on 27th June 2020.

23. Participated in the webinar "**Internet of Things Using Rasperry Pi** " on 19th, June 2020 by Istitute of Engineering and Technology in Association with PANTECH.

24. Participated in three days FDP on "Research Perspective in Futuristic Computing Technologies" from 6th to 9th July, 2020 organized by Department of Computer Science & Engineering, School of Engineering, Dayananda Sagar University, Bengaluru.

25. Participated in the one day webinar on "**Writing A research Grant Proposal**" by Faculty of Engineering and Computer Sciences Teerthanker Mahaveer University, on 15th June, 2020.

26. Participated in the seminar on "**AI in Business**" on 11th January, 2021 at St. Joseph's College, Trichy.

27. Participated in the seminar on "**Open Educational Resources – Search, Identify, Repurpose and create your OER**" on 25th November, 2021 at St. Joseph's College, Trichy.

28. Participated in the Two days national level FDP on **Research Methodology and Research Tools**, from 6th to 7th July, 2023 by IoT Academy.

29. Participated in the Seven Days level FDP on "**Teaching, Learning and Research**", from 19th to 25th June 2023 by IoT Academy.

30. Participated in the FDP on Academic Research Writing at St. Joseph's College , Trichy on 22nd July, 2023.

31. Participated in the Seven days national level FDP on **"Quality Teaching and Learning HEI'S"** , from 3rd to 11th August, 2023 by IoT Academy.

32. Participated in the National Level Online Workshop on "**Chat GPT for Academics**" organized by St. Joseph's College, Trichy on 21st June , 2023.

33. Participated in the International Workshop on **Unleashing Innovative Technologies** organized by Holy Cross College(Autonomous) Trichy on 19th & 20th February 2024.

34. Participated in the two days FDP on Critical and Creative thinking skills organized by Michael Job Memorial College of Education for women, Coimbatore on 5th & 6th, August, 2024.

35. Participated in the FDP on AI Tools for Teaching and Research organized by IoT Academy Coimbatore on 23rd, January, 2025.

Personal details

Father'sName	: P. Sundarraj (late)
Mother's Name	: S. Uma Mahesvari
Marital Status	: Married
Date of Birth	: 18.10.1994
Languages known	: Tamil and English
Permanent Address	: 13A, 3rd Cross, 3rd Street, Alpha Nagar, Karumandapam Trichy