

**Dr. G Naveen Sundar, M.E., Ph.D.**

Associate Professor,

Department of Computer Science and Engineering

Karunya Institute of Technology and Sciences

Coimbatore – Tamil Nadu

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[+91 9843166880](tel:+919843166880)

CAREER OBJECTIVES:

- ❖ A qualified education proficient with 15 years and 8 months of experience in teaching and 10 years in research with a wealth of knowledge in development and implementation of educational technology and applications in universities and engineering colleges.
- ❖ Aiming to enhance myself in the field of education and to utilize my knowledge for the betterment of students

BACKGROUND:

Dr. G. Naveen Sundar has completed his Ph.D. in the field of data mining. He is continuing his research in the field of machine learning and deep learning. He has authored and co-authored more number of referred International Journals. He has also presented more number of papers in reputed International and National conferences. He has published four Indian patents for his innovations and Intellectual Property right. He is currently working as an Associate Professor in the department of Computer Science and Engineering in Karunya Institute of Technology and Sciences. He has 16 years of experience in teaching. He has completed more than 5 certifications related to block chain, machine learning and deep learning. He has created many digital contents related to python programming, computer architecture, knowledge management and object-oriented analysis and design in YouTube. He is a life member of computer society of India.

FACULTY PROFILE:

Name : **Dr. G. NAVEEN SUNDAR**

Mail ID : ggnaveengg@gmail.com

Contact Number: +91 - 9843166880

Date of Birth : 25-10-1980

Degree	University	Year of passing
Ph.D.	Anna University	2016
M.E	Karunya University	2006
B.E	Manonmaniam Sundaranar University	2002

Professional Experience: 15 years and 6 months

Research experience: 10 years

Institution/Place	Designation	Period	Nature
Karunya Institute of Technology & Sciences, Coimbatore.	Lecturer	12.7.2006 31.12.2008	Teaching and Research
Karunya Institute of Technology & Sciences, Coimbatore.	Assistant Professor (AGP 6000)	1.1.2009 31.12.2008	Teaching and Research
Karunya Institute of Technology & Sciences, Coimbatore.	Assistant Professor (AGP 8000)	1.9.2011 30.11.2021	Teaching and Research
Karunya Institute of Technology & Sciences, Coimbatore.	Associate Professor	1.12.2020 Till date	Teaching and Research

SUBJECTS TAUGHT IN UG & PG:

- Data Science
- Python Programming
- Computer Architecture
- Object Oriented Analysis and Design
- Knowledge Management
- Advanced Computer Architecture
- Python for Data Science
- Information storage Management

RESEARCH GUIDANCE:

No. of Ph.D. Students : 6 (Ongoing)

No. of PG project guided: 10

No. of UG project guided: 35

Category	Name of the candidate	Research Area	Status
Ph.D.	Mr. Shyam Krishna K	Machine Learning and Deep Learning	Ongoing
	Ms. Sreetha E S	Machine Learning and Deep Learning	Ongoing
	Ms. Chethna Joy	Machine Learning and Deep Learning	Ongoing
	Mr. Safad Ismail	Machine Learning and Deep Learning	Ongoing
	Ms. Reshma Nair	Machine Learning and Deep Learning	Ongoing
	Ms. Neethu Krishna	Machine Learning and Deep Learning	Ongoing

CAREERS PROJECT:

Ph.D. (April, 2016): *“Investigations on the Effect of Content Extraction and Template removal from Heterogenous Web Pages”* – Anna University, Chennai.

RESEARCH ACTIVITIES

TOTAL PAPERS: 42

International Journals: 23

International Conferences: 19

A. PAPER PUBLICATIONS

INTERNATIONAL JOURNALS

1. Krishna, N., Sundar, G.N., Narmadha, D. Vector Based Genetic Lavrentyev Paraboloid Network Wireless Sensor Network Lifetime Improvement Wireless Personal Communications, 2024, 134(4), pp. 1917–1944
2. Joy, C., Sundar, G.N., Narmadha, D. Artificial Intelligence Based Test Systems to Resist Waterborne Diseases by Early and Rapid Identification of Pathogens: A Review, SN Computer Science, 2023, 4(2), 180
3. Naveen Sundar. , Lincoln, G.A.A., Dhanasegar, N., Bacanin, N., Sadasivuni, K.K. A New Method for Detecting the Fatigue Using Automated Deep Learning Techniques for Medical Imaging Applications, Wireless Personal Communications, 2024, 135(2), pp. 1009–1034
4. **G. Naveen Sundar**, D. Narmadha, Automated sleep stage classification in sleep apnoea using convolutional neural networks Informatics in Medicine Unlocked, Volume 26, January 2021(**SCOPUS INDEXED**)
5. **G. Naveen Sundar**, D. Narmadha, An automated model for target protein prediction in PPI, Current Bioinformatics, 2021, 16(4), pp. 601–609(**Impact factor: 3.543**)
6. **G. Naveen Sundar**, Narmadha, An efficient data analytics model for predicting the harmful effects of air pollutants, International Journal of Scientific and Technology Research, 2020, 9(2), pp. 2486-2490(**SCOPUS INDEXED**)
7. Jeba Priya, S, **G. Naveen Sundar**, Identification of weeds using Hsv color spaces and labelling with machine learning algorithms, International Journal of Recent Technology and Engineering, 2019, 8(1), pp. 1781-1786(**SCOPUS INDEXED**)
8. **G. Naveen Sundar**, D.Narmadha, Dr.A.P.Haran, “Simplified Scheme For Performance Augmentation Of Web Data Extraction”, *Journal of Theoretical and Applied Information Technology*, Vol.60, Issue 3, Feb. 2014(e-ISSN: 1817-3195) (**SCOPUS INDEXED**)
9. **G. Naveen Sundar**, D.Narmadha, Dr.A.P.Haran , “Performance Intensification for automatic Template using world wide web, *Research Journal of Applied Sciences*, Volume 9, Issue 5, 2014, Pages 288-294”. (**SCOPUS INDEXED**)
10. **Naveen Sundar**, G., Haran, A.P., Investigation on the effect of content extraction in

heterogeneous web pages , *International Journal of Applied Engineering Research*, 10 (14), pp. 34879-34882, (2015). (**SCOPUS INDEXED**)

11. D. Narmadha , **G. Naveen Sundar** , S.Jebapriya “Survey of clustering algorithms for categorization of patient records in Health care”, *Indian Journal of Science and Technology*, Vol 9(8), DOI: 10.17485/ijst/2016/v9i8/87971, February 2016, ISSN (Print): 0974-6846 ISSN(Scopus, Web of Science and Thomson Reuters Indexed Journals-Annexure II.)
12. D. Narmadha, **G.Naveen Sundar**, S.Geetha' An Efficient Approach to Prune Mined Association Rules in Large Databases, *IJCSI International Journal of Computer Science Issues*, Vol. 8, Issue 1, January 2011, ISSN (Online): 1694-0814.
13. Cyju Elizabeth Varghese, **G. Naveen Sundar**, Record Matching: Improving Performance in Classification, *International Journal on Computer Science and Engineering (IJCSE)*, Vol. 3 No. 3 Mar 2011, ISSN: 0975-3397.
14. Mariat Thomas, **G. Naveen Sundar**, A Survey on Adaptive Query Optimization Over Data Stream, *International Journal of Computer Science and Management Research (IJCSMR)* , Vol. 1, Issue 5, pp. 1151-1154, Dec 2012, ISSN: 2278 – 1323.
15. **G. Naveen Sundar**, D. Narmadha , “An Efficient Approach for Mining Association Rules in Large Databases” in *International Journal of Artificial Intelligence and Knowledge Discovery(IJAI)*, Vol 2, Issue 1, Jan 2012, ISBN: 2231-2012.
16. **G. Naveen Sundar**, Teena A.Sunny, Optimized Clustering for Personal Name Information Extraction, *IJCST Vol.3, Issue 4, Oct- Dec 2012*, ISSN : 0976-8491 (Online) | ISSN : 2229-4333 (Print).
17. **G. Naveen Sundar** , Sheba Gaikwad, Efficient content extraction using hybrid technique,, *International Journal of Computer Science and Technology*, Vol. 3, Issue 4, Oct- Dec 2012. ISSN: 0976-8491(Online), ISSN: 2229-4333(print).
18. Gaikwad, **G. Naveen Sundar** Optimized Content Extraction from web pages using Composite Approaches, *International Journal of Computer Trends and Technology- volume 4, Issue 3- 2013*, ISSN: 2231-2803.
19. Mariat Thomas, **G. Naveen Sundar**, Adaptive sharing method for multiple continuous query, *International Journal of Advanced Research in Computer Engineering and Technology (IJARCET)* , Vol. 2, Issue 3, pp. 1151-1154, Mar 2013, ISSN: 2278 – 1323.
20. Claudia Reynolds, **G. Naveen Sundar** , A Survey on Discovery of Part-Whole Relations with Knowledge-Base , *International Journal of Advanced Research in Computer Science and Software Engineering*, Volume 3, Issue 12, December 2013, ISSN: 2277 128X.
21. **G. Naveen Sundar**, Samson Immanuel, Manoj, Dr. A. P. Haran, Performance Augmentation for Automatic Template Extraction, *Jokull Journal*, Vol. 63, No. 8, Aug 2013, ISSN: 0449-0576.
22. Akiladevi R, **G. Naveen Sundar**, An Survey on Web log mining using DBSCAN, *International Journal of Research in computer Applications and Robotics*, Vol. 1, Issue 9, pg. 144-149, Dec 2013, ISSN:2320-7345
23. Sherlin Mary Koshy*, **G. Naveen Sundar**, A Study on the Existing Techniques for Query Interface Integration , *International Journal of Advanced Research in Computer Science and Software Engineering*, Volume 3, Issue 12, December 2013, ISSN: 2277 128X.
24. **G. Naveen Sundar**, D. Narmadha,”A Proficient Method for Template Removal”, *International Journal of Computer Science and Technology*, Vol. 4, Issue 1, Jan - March 2013, ISSN: 2229-4333.
25. Teena A. Sunny, **G. Naveen Sundar**, "An Efficient Information Extraction Model for Personal Named Entity", *International Journal of Computer Trends and Technology*, Vol. 4, Issue 3, pp. 446-449, 2013.

26. **G. Naveen Sundar**, D. Narmadha, Dr. A. P. Haran,” Combinational Scheme for Efficient Content Extraction from Web Pages”, Australian Journal of Basic and Applied Sciences, Vol. 8, Issue 1, Jan 2014.

INTERNATIONAL CONFERENCES:

1. Subramanian, S. Narmadha, D. Sundar, G.N., Saravanan, S., Bruntha, P.M.
High-Performance Ka-Band Microstrip Patch Antenna for Next-Generation Networks at 33 GHz
Proceedings of the 2nd IEEE International Conference on Networking and Communications 2024, ICNWC 2024, 2024
2. Malin Bruntha, P., Iwin Thanakumar Joseph, S., Saravanan, S., Subramanian, S.,
Naveen Sundar, G. Glaucoma Prediction Using Deep Learning Techniques - A Comparative Study
3. Naveen Sundar, G. Subramanian, S., Narmadha, D., Iwin Thanakumar Joseph, S.,
Saravanan, S. Improved Heart Sound Classification Using LSTM Based Deep Learning Technique
Proceedings - 2024 5th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks, ICICV 2024, 2024, pp. 557–561
4. Keerthika, C. , Jenitha Blesy, A. , Grace Gnanam, J., Narmadha, D., Sundar, G.N. Solar-Powered Waterborne Debris Collector Equipped with Sprinkler System 2nd International Conference on Emerging Trends in Information Technology and Engineering, ic-ETITE 2024, 2024
5. Saravanan, S. , Bruntha, P.M., Joseph S, I.T., Sundar, G.N., Narmadha, D. Reconstruction of Medical Images from Sparse Data: A Deep Learning Approach Proceedings - 2024 5th International Conference on Mobile Computing and Sustainable Informatics, ICMCSI 2024, 2024, pp. 500–504
6. Nair, R.B. Sundar, G.N., Narmadha, D. Educational Data Mining: A Systematic Review of Machine Learning Algorithms, IET Conference Proceedings 2023, 2023(22), pp. 310–315
7. Nikhithanjani, K.N.S., Narmadha, D., Sundar, G.N., Sagayam, K.M.
An Extensive Literature on Heart Sound Classification Using Integrated Signal Processing and Deep Learning Techniques ICSPC 2023 - 4th International Conference on Signal Processing and Communication, 2023, pp. 128–132
8. G. Naveen Sundar, D. Narmadha, Performance Optimization of Quantum Computing Applications using D Wave Two Quantum Computer, 5th International Conference on Trends in Electronics and Informatics, ICOEI 2021, Pages 102 - 1063, June 2021.
9. Chethna Joy, G. Naveen Sundar, D. Narmadha, AI driven automatic detection of bacterial contamination in water : AA review, Proceedings - 5th International Conference on Intelligent Computing and Control Systems, ICICCS 2021, 2021, pp. 1281–1285, 9432171
10. Joshua Steyn, Jeba Priya, G. Naveen Sundar, Leebanon, Deep Learning-Based Enhanced Classification Model for Pneumonia Disease, Smart Innovation, Systems and Technologies, 2021, 224, pp. 285–293
11. Naveen Sundar, G., Narmadha, D., Jebapriya, S., Malathy, M., Optimized methodology for hassle-free clustering of customer issues in banking, Advances in Intelligent Systems and Computing, 2019, 768, pp. 421–428
12. Alice Gavya, G. Naveen Sundar, Web Caching based on cache gain in En-route, International

- conference on emerging trends in Engineering Technology, Mar 2010.
13. Participated and presented a paper titled “Improving Performance in Dynamic Web Cache”, Advanced Computing in Computer Applications”, 20th March 2010.
 14. G. Naveen Sundar, Sharon Jacob, Web search engine based semantic similarity appraise between words, International Conference on Emerging Technological Trends in Advanced Engineering Research, ICETT 2012, ISBN: 978-93-80624-62-4.
 15. G. Naveen Sundar, Neethu Mary, An Efficient Approach for detection and Extraction of templates from web pages, International Conference on Emerging Technological Trends in Advanced Engineering Research, ICETT 2012, ISBN: 978-93-80624-62-4.
 16. G. Naveen Sundar, S.Castro, Online Record Linkage techniques with secured methods, International conference on computing, communication and Applications (ICCCA), Feb 2012, ISBN: 978-93-80-624-62-4.
 17. Participated and presented a paper titled “Performance growth for TEXT” in the International Conference on Electronics and Communication systems, 13-14 Feb 2014.
 18. G. Naveen Sundar, D.Narmadha, “An efficient approach for template detection and Content extraction from web pages” from 9th to 11th April during the 3rd international conference on Innovative Research in Engineering and Technology.
 19. G. Naveen Sundar, D. Narmadha “Utilization of Data Mining technique for hassle free categorization of customer issues in Banking” during International conference on converging Biotechnological Innovations for Health, Food And Environmental Welfare (ICCB I 2015) between December 2-4, 2015".
 20. G. Naveen Sundar, D. Narmadha, S.Jebapriya “Utilization of Data Mining Technique to Predict the Harmful Effects of Air Pollutants On Human Health”, ISRO Sponsored Indian Conference on Data Analytics, Big Data, Data Mining and Data Science (ICD4’16) , 27 – 28 Oct, 2016.
 21. D. Narmadha, G. Naveen Sundar, S.Jebapriya “Survey of clustering algorithms for categorization of patient records in Health care”, 4th International Conference on Design and Applications of Structures, Drives, Communicational and Computing Systems(ICDASDC-2015), Nov 27-28, 2016, ISBN: 978-1-944171-34-61G. Naveen Sundar, Saranya, A survey on web mining and Content extraction, proceedings of second national conference on Innovative computing techniques and applications, 17th Mar 2017.
 22. D. Narmadha, G. Naveen Sundar, S.Jeba priya, “ Enhanced K-means algorithm to improve time efficiency, 20th – 21st Dec, 2017.
 23. Ebenezer, A.S., Priya, S.J., Narmadha, D., Naveen Sundar, G “A Novel Scoring system for Coronary Artery disease risk Assessment system”, in 2017 International Conference on Intelligent Computing and Control (I2C2), 978-1-5386-0373-4, June 25-26, Karpagam University, Coimbatore [Scopus Indexed]
 24. Naveen Sundar, G., Narmadha, D., Jebapriya, S., Malathy, M. Optimized methodology for hassle-free clustering of customer issues in banking (2019) Advances in Intelligent Systems and Computing, 768, pp. 421-428. [Springer, Scopus Indexed]
 25. Published a paper in conference proceeding AISGSC 2019, “A Review on Graph Analyticsbased approaches in Protein- Protein interaction network, 4-5, Jan 2019.

B. VIRTUAL PLATFORM OF TEACHING:

Effective utilization of interactive teaching and learning tools such as,

- ✓ Google Colab
- ✓ Google Classroom
- ✓ Digital board
- ✓ YouTube
- ✓ Quizizz

C. BOOK CHAPTERS:

TOTAL: 2

1. Published a book chapter titled “Utilization of Data Mining technique for hassle free categorization of customer issues in Banking” in the book **Enabling Technologies for Health and Human Betterment**, Sam publishers, Chennai, **ISBN: 9789380485751**.
2. Ms. Oshin Jacob, G. Naveen Sundar, An AAC Communication Device for patients with total paralysis, *Advances in Computerized Analysis in Clinical and Medical Imaging*

D. PATENT PUBLICATION:

1. **Title of the invention:** TARGET PROTEIN PREDICTION FOR INFECTIOUS DISEASES, **Application No.202141057926 A, Date of filing of Application :13/12/2021, Publication Date: 17/12/2021**
2. **Title of the invention:** MOUTH BLOWING GESTURE BASED COMMUNICATION & ACTUATION SYSTEM, **Application No.201941045700 A, Date of filing of Application :11/11/2019, Publication Date: 29/11/2019**
3. **Title of the invention:** EFFECTIVE SYSTEM FOR GENE PREDICTION FOR CONTAGIOUS DISEASES, **Application No. .202141008458 A, Date of filing of Application :1/03/2021, Publication Date: 12/03/2021**
4. **Title of the invention:** MULTI-SENSOR DATA FUSION ENABLED AI BASED EMOTION IDENTIFICATION SYSTEM, **Application No. .202141008460 A, Date of filing of Application :1/03/2021, Publication Date: 12/03/2021**

E. INVITED TALK:

S. No	Event	Topic of Lecture	Venue	Date	Level
1	Seminar	Data Mining and its Implementation	Kalingar Karunanidhi Engineering College	28.1.11	National
2	Guest lecture	Recent Trends in Computer Technology	Angel Engineering College, Tirupur	3.8.10	National

3	Workshop	Data Mining	Ponjesly Engineering College	9.11.2010	National
4	Seminar	Valuable Ethics	C.S.I Institute of Technology, Thovalai	10.7.13	National
5	Guest Lecture	Data Mining	Loyola Institute of Technology and Science, Thovalai	8.1.18	National
6	Seminar	Machine Learning Techniques and its Applications	Ponjesly college of Engineering, Nagercoil	27.9.19	National
7	Seminar	Machine Learning Techniques and its Applications	Marthandam College of Engineering and Technology	28.9.19	National
8	Webinar	Learning Machine Learning using scikit-Learn	Jeppiar Institute of Technology	12.6.21	National
9	Fresher Induction Program	Python Program and its Applications	Good Shepherd College of Engineering and Technology	1.11.21 20.11.21	National

F. WORKSHOP/FDP PARTICIPATED:

S. No	Event	Title	Venue	Date
1	Pedagogy	Interpersonal skills training program	Karunya University	18 th June 22 nd June, 2007.
2	FDP	Wired and wireless simulations in NS2 and Ubuntu	Karunya University	26 th Nov, 2009.

3	FDP	Challenges in Information Security	Karunya University	19 th and 20 th June 2009
4	FDP	Oracle certified Associate	Karunya University	June 2009
5	Workshop	Multimedia and VISCOM Technologies	Park college of Engineering and Technology	17 th and 18 th Aug, 2009.
6	Workshop	NS2 Simulator	Karunya University	17 th sept 2010.
7	FDP	Infosys Campus Connect	Mysore	27 th June, 2011 to 1 st July 2011.
8	Workshop	Weka Datamining Tool	GCT	29 th sept 2011.
9	Workshop	How to serve people	Karunya university	27 th July 2013.
10	Workshop	Business Analytics, Tools and Applications	CIT	23 rd and 24 th Aug, 2013.
11	FDP	Redefine Data Analytics with Big Data	PSG College of Technology	29-31 October, 2014.
12	FDP	FDP on Big Data software	Karunya University	17.6.15 to 21.6.15
14	FDP	Teaching Learning Methodology for Engineers	Karunya University	June 28, 2016.
15	FDP	Lecture capturing	Karunya University	24.8.16
16	FDP	51 st Annual Convention of CSI	Coimbatore	23-25 January 2017.
17	FDP	Preparation of project proposal on social enrichment	Karunya University	21 st July, 2017.

18	Workshop	Internet of Things- Limitless possibilities	KITS	2 nd Feb 2018
19	AICTE sponsored Refresher Program	Machine Learning Techniques for next generation smart systems	Srikrishna College of Technology	18 th June – 23 rd June, 2018
20	Workshop	Machine Learning Techniques for Smart Applications	Annamalai University	28-29 Sept 2018.
21	FDP	Technologies for societal needs	Karunya Institute of Technology and Sciences	3.8.2020 – 7.8.2020
22	FDP	Trends and Technologies in digital era	Karunya Institute of Technology and Sciences	27.7.2020 to 31.7.2020
23	FDP	One week ATAL Online FDP on Internet of Things(IoT)	Central University of Kerela	11.1.2021 to 15.1.2021
24	FDP	FDP on Management Information System	MEPCO Schlenk Engineering College	4.1.2021 to 8.1.2021
25	Seminar	Renewable Energy systems	Park College of Engineering	29.6.2020
26	Seminar	Serverless Technology	Karunya Institute of Technology and Sciences	6-06-2020 to 7.6.2020

G. PROFESSIONAL MEMBERSHIPS:

- IEEE member
- Computer Society of India
- International Association of Engineers (IAENG) – No.: 274249

H. SIGNIFICANT ACHIEVEMENTS:

- **BoS member** for Nehru Institute for Engineering and Technology, Shree Venkateshwara Hi-Tech Engineering College, Awarded as **Bronze partner faculty** under Inspire campus connect partnership model, Infosys.
- Participated as a **Judge** in Technical paper presentation on 19th and 20th Feb 2015 for the International Conference [ICTETSHAM'15] organized by Tamizhan college of Engineering, K.K Dist.