CURRICULUM VITEA

Contact Information:

Dr. P. DEEPAN M.E., Ph.D.,

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Mob. No.: +91-9597460508

P. No. 102, SNR Dhanalakshmi Apartments,
Besides Indian Oil Petrol Bunk,
Bhagathurpally, Hyderabad -500 043.

Objective:

🔸 To become a perspicacious person by working in the environment that would upgrade my knowledge at each stage along with the magnanimous character to make the place pleasant.

Researcher ID's:

ORCID ID:	https://orcid.org/0000-0002-8406-9712
Web of Science Researcher ID:	AAF-3960-2019 **Citation: 5, H-index: 1**
Google Scholar:	**https://scholar.google.com/citations?user=_Bd5078AAAAJ&hl=en** **Citation: 170, H-index: 6, i10-index: 5**
Scopus:	**https://www.scopus.com/authid/detail.uri?authorId=57850652600** **Citation: 14, H-index: 3**
Research Gate:	**https://www.researchgate.net/profile/Deepan-Perumal** **Citation: 64, H-index: 5**

Educational Qualification:

S. No.	COURSE	NAME OF THE INSTITUTION	PERCENTAGE	YEAR OF PASSING
1.	Ph.D., (CSE) Full Time	Annamalai University, Chidambaram.	Highly Recommended	09-06-2022
2.	M.E., (CSE)	Annamalai University, Chidambaram.	8.89 OGPA (with Distinction)	2010-2012
3.	B.E., (CSE)	Pallavan College of Engineering, Kanchipuram.	68%	2007-2010
4.	Diploma in	Thanthai Roever Polytechnic	84.2%	2004-2007

	CSE	College, Perambalur.	(with Distinction)	
5.	SSLC	Thanthai Hans Roever High School, Elambalur.	78%	2004

Skill Sets:

- Platforms   : Windows Family, Linux Distributions

- Programming Languages   : C, C++, Java and Python.

- Database   : Ms-Access, Oracle 10g and My SQL.

- Web Designing Languages   : HTML, PHP

- Development Packages   : android studio

- Design Tool   : QGIS, SAGA Tool

- IDE   : Anaconda Prompt and Jupyter Notebook.

- Developer Application   : MATLAB

- Libraries   : TensorFlow, Keras, Open CV

Teaching Experience:

S. No.	Designation	Institution Name	Experience (in Year)
1.	Associate Professor & Head / Dept. of CSD	St. Peter's Engineering College, Hyderabad.	14.09.2022 to Till Date
2.	Assistant Professor / Dept. of CSE(AI&ML)	St. Martin's Engineering College, Hyderabad.	1 Year 2 Months (08.07.2021 to 08.09.2022)
3.	Full Time Research Scholar/ Dept. of CSE	Annamalai University, Chidambaram.	3 Years 01.06.2018 to 30.06.2021
4.	Assistant Professor / Dept. of CSE	Arasu Engineering College, Kumbakonam.	5 Year (24.06.2013 to 31.05.2018)
5.	Assistant Professor / Dept. of CSE	Meenakshi Ramaswamy Engineering College, Thathanur.	1 Year (Approx.) (01.06.2012 to 30.04.2013)

Subject Handled:

S. No.	Subject Handled	Results Obtained in (%)
1.	Cloud Computing, Advanced Data Structures and Algorithms,	100 %
2.	Cryptography and Network Security, Design and Analysis of Algorithms, Problem Solving and Python Programming,	Above 90%
3.	Computer Network, Data Structure and Algorithm, Unix Programming, Fundamentals of C Programming, Programming C++, Software Engineering, Database Management System, Image Processing and Analysis, Computer Architecture, Operating System and Python Programming.	-

Research Experience:

Ph. D (Full-Time Scholar)	Department of Computer Science and Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalainagar from 17-06-2018 to 30.06.2021
Research Methodology Papers	1. Research Methodology 2. Advanced Image processing 3. Machine Learning Techniques
Research Interests	Artificial Intelligence, Deep Learning, Remote Sensing Image Processing and Machine Learning
Thesis Title at Ph.D (CSE)	Efficient Scene Classification and Object Detection Models for Remotely Sensed Images using Deep Learning Techniques

Academic Roles and Responsibilities:

- Head of the Department (HoD) for the Computer Science and Design from 20.12.2022 to Till Date.
- Worked as overall Project coordinator for Final Year Students during the Academic Year 2022-23.
- I worked as Program coordinator for Final Year Students during the Academic Year 2022-23.
- I worked as NBA Criteria in-charges during the Academic Year 2022-23.

Publication Details:

S. No.	Publications	Count
1.	Web of Science Journal	2
2.	Scopus Indexed Journal	8
3.	UGC Journals	6
4.	Book Chapter	3
5.	International Conferences	10
6.	National Conferences	3
7.	Book Published	1
8.	Patent Published	4

Journal Publications: 17

1. Kalaivani K, Chinnadurai M, **Deepan P,** Ganesh J and Kannan S, "Combined Ensemble Intrusion Detection Model using Deep learning with Feature Selection for Fog Computing Environments", Acta Scientiarum, Vol. 45, pp. e60551-e60551, 2022. **(Scopus Journal)**

2. R Santhoshkumar, B Rajalingam, **P Deepan,** G Jawaherlal Nehru, S Bavankumar, "Plant Leaf Disease Prediction: A PLDD Net-SVM Model Proposed using Internet of Thing (IoT) and Integrated Learning Model", Journal of Optoelectronics Laser, Vol. 41(9), pp. 543-551, 2022. **(Scopus Journal)**

3. B Rajalingam, R Santhoshkumar, **P Deepan,** P Alexander, "Canny Edge Detection Algorithm: A Modern Traffic Control System using Machine Learning Techniques", Journal of Optoelectronics Laser, Vol. 41(9), pp. 531-542, 2022. **(Scopus Journal)**

4. **P. Deepan,** T. Kalai Selvi, R. Jeevitha , R. Sivaranjani and R. Hemalatha, "Insect Pest Classification and Predictions in Different field of Crops using PC-CNN Model", International Journal of Mechanical Engineering, Vol. 7, Issue: 1, 2022. **(Scopus Journal)**

5. **P. Deepan,** L.R. Sudha, K. Kalaivani and J. Ganesh, "Scene Classification of Remotely Sensed Images using Optimized RSISC-16 Net Deep Convolutional Neural Network", EAI End. Transactions on Scalable Information System, Vol. 1(8), 2022. **(Web of Science/ Scopus)**

6. K. Kalaivani, M. Priya, **P. Deepan,** L.R. Sudha, and J. Ganesh, "Heart Disease Prediction System Based on Multiple Feature Selection Algorithm with Ensemble Classifier", ECS Transactions, Vol. 107 (1), pp. 8049-8059, 2022. https://doi.org/10.1149/10701.8049ecst. **(Scopus Indexed)**

7. **P.Deepan** and L.R. Sudha, "Fusion of Deep Learning Models for Improving Classification Accuracy of Remote Sensing Images", Journal of Mechanics of Continua and Mathematical Sciences (JMCMS), Vol.14, No.5, September 2019, pp.189-201, ISSN: 2454-7190, **(Web of Science)**

8. **P.Deepan** and L.R. Sudha, "Remote Sensing Image Scene Classification using Dilated Convolutional Neural Networks", International Journal of Emerging Trends in Engineering Research, Vol. 8, No.7, pp.3622-3630, 2020. ISSN: 2347-3983, **(Scopus Indexed)**

9. **P. Deepan** and Sudha, L.R. (2021), Scene Classification of Remotely Sensed Images using Ensembled Machine Learning Models, *Lecture Notes in Electrical Engineering (LNEE)*, Springer Series, ISSN: 1876-1100, **(Scopus Indexed)**

10. **P. Deepan** and Sudha, L.R. (2021), Effective Utilization of YOLOv3 Model for Aircraft Detection in Remotely Sensed Images, *Materials Today: Proceedings, Elsevier*, ISSN: 2313-4534, 2021. https://doi.org/10.1016/j.matpr.2021.02.831. **(Scopus Indexed)**

11. **P.Deepan** and L.R. Sudha, "Comparative Analysis of Remote Sensing Image Scene Classification using various Convolutional Neural Networks", EAI End. Transactions on Cognitive Communications, Vol. 4, pp.1-12, 2021. doi:10.4108/eai.11-2-2021.168714 **(Others)**.

12. **P.Deepan and** L.R. Sudha, "Object Detection in Remote Sensing Aerial Images: A Review", *International Journal of Scientific Research in Computer Science Applications and Management Studies*, Vol. 7, Issue 4, **ISSN: 2319-1953,** 2018. **(UGC Journal)**

13. A. Sriram and **Deepan.P**, "Effective optimization of network reliability using New Adaptive Genetic Algorithm", International Journal of Modern Science & Technology (IJMST), ISSN: 2456-0235, pp. 115-120. Vol.1, No.4, July - 2016. **(UGC Approved)**

14. **P.Deepan**, R.Raja Vignesh and S.Venkateswaran, "Face Recognition based Automated Attendance Management System using Hybrid Classifier", International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056, Vol:4(5), 2017.**(UGC Approved)**

15. M. Akila and **P. Deepan,** "Detection and Classification of Plant Leaf Diseases by using Deep Learning Algorithm", International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol.6,(7), pp.1-5, 2018. **(UGC Approved)**

16. **P. Deepan,** S. Abinaya, G. Haritha, V. Iswarya "Road Recognition From Remote Sensing Imagery Using Machine Learning" International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056. **(UGC Approved)**

17. M. Akila and **P. Deepan** "An Identifying Plant Leaf Diseases Based on Color, Shape and Texture Features", International Journal of Industrial Engineering (IJIE), ISSN: 2456-8449,Vol. 1, No. 9, Page 259-264,Dec-2017. **(UGC Approved)**

Book Chapters: 03

1. GSP Ghantasala, LR Sudha, TV Priya, **P Deepan,** RR Vignesh, "An Efficient Deep Learning Framework for Multimedia Big Data Analytics", Multimedia Computing Systems and Virtual Reality,CRC Press, 2022, pp. 99-125, Taylor and Francis. https://doi.org/10.1201/9781003196686 **(T&F Book Chapter)**

2. **P.Deepan** and L.R. Sudha, "Object Classification of Remote Sensing Image Using Deep Convolutional Neural Network", The Cognitive Approach in Cloud Computing and Internet of Things Technologies for Surveillance Tracking Systems, pp.107-120, 2020. https://doi.org/10.1016/B978-0-12-816385-6.00008-8 **(Elsevier Book Chapter)**

3. **P.Deepan** and L.R. Sudha, "Deep Learning Applications and Its related to IoT and Computer Vision", Artificial Intelligence and IoT: Smart Convergence for Eco-friendly Topography, Springer Nature, pp. 223-244, 2021, https://doi.org/10.1007/978-981-33-6400-4_11. **(Springer Book Chapter/ Scopus Indexed)**

Patent Filed: 04

1. P. Deepan filed a patent titled **"Intelligent Monitoring System: Emotion Recognition of Autism Children from Smart Class Video"**, Application No. 202241023677 A, Publication Date: 06/05/2022.
2. P. Deepan filed a patent titled "**Real-Time Intelligent Surveillance System for Aged People Fall Detection from Indoor Video,** Application No.202241025101 A, Publication Date: 13/05/2022.
3. P. Deepan filed a patent titled **"An IoT and Deep Learning-based Real-Time Smart Framing of Maize Crop Drought Management System"**, Application No.202241027045 A, Publication Date: 03/06/2022.
4. P. Deepan filed a patent titled **"The Best Way to Recognize Sign Language using Convolutional Neural Networks and Computer Vision",** Application No. 202241025932 A, Publication Date: 15/07/2022.

Book Publications: 01

1. Dr. T. Poongothai, Dr. G. Govindarajulu and **P. Deepan** published a book titled **"Introduction to Artificial Intelligence"**, Spectrum Publishers, 2022.

International Conference: 10

1. P. Deepan, R. Santhosh kumar and B. Rajalingam, "**An Intelligent Robust One Dimensional HAR-CNN Model for Human Activity Recognition using Wearable Sensor Data",** IEEE International Conference on Advances in Computing, Communication Control and Networking (ICAC3N'22), on 16th & 17th December 2022. **(Scopus Indexed)**
2. R. Santhosh kumar, B. Rajalingam, and P. Deepan, **"Smart Plant Leaf Disease Detection System using Internet of Thing (IOT) and PLDP Net-RF Model",** IEEE International Conference on Advances in Computing, Communication Control and Networking (ICAC3N'22), on 16th & 17th December 2022. **(Scopus Indexed)**
3. B. Rajalingam, R. Santhosh kumar and P. Deepan, "**A Smart System for Sign Language Recognition using Machine Learning Models",** IEEE International Conference on Advances in Computing, Communication Control and Networking (ICAC3N'22), on 16th & 17th December 2022. **(Scopus Indexed)**
4. **P. Deepan** and S. Dhiravidaselvi, **"Towards Efficient Crowd Monitoring System for Prevention of Corona Virus Disease in Public Sectors"**, International Conference Innovations and Recent Trends in Computer Science (ICIRTCS'22) on 25th & 26th March, 2022.
5. **Deepan.P,** and Dr. L.R. Sudha, **"Fusion of CNN and Deep CNN for Object Classification in Remote Sensing Images"**, International Conference on Recent Trends in Engineering and Technology (ICRTET'19), St. Joseph's Institute of Technology, Chennai, pp. 13-17, 3rd & 4th May 2019.
6. **Deepan.P,** and Dr. L.R. Sudha, **"Aircraft Detection of Remote Sensing Images based on YOLOv3"**, International Conference on Advances in Computing and Information

Technology (ICACIT'19), Department of CSE, Annamalai University on 24th & 25th Sep-2019, pp.1-6.

7. **Deepan.P,** and Dr. L.R. Sudha, **"Ensemble Models for Scene Classification of Remote Sensing Images",** International Conference on Artificial Intelligence and its Applications (ICAIA'20), Maharaja Surajmal Institute of Technology, Delhi on 7th & 8th Feb-2020, pp121-125.

8. **Deepan.P**, Ms.M.Ayesha Parveen, S.Jummera Nasrin and J.Israth Begam**, "Video Data Retrival based on text content detection"**, IEEE-IECICT-2016, M.A.M College of Engineering, Trichy on 23 March 2016.

9. **Deepan.P**, and L.R. Sudha, **"Motion detection algorithm for video surveillance systems"**, ICECE-2012, Sri lakshmi ammal College of Engineering, Chennai, 6-7 April 2014.

10. **Deepan.P,** and L.R. Sudha, **"An advanced motion detection algorithm for video surveillance systems"**, IEEE-ICACT-2012, J.K.K.Nataraja College of Engineering, Namakkal, May-2012.

National Conference: 03

1. **Deepan.P,** and Dr. L.R. Sudha, **"Object Classification of Aerial Images using Convolutional Neural Networks (CNNs)"**, National Conference on Recent Trends in Computing and Information Technology (RTCIT'18), Annamalai University, ISBN 978-93-87862-35-7, 13th,14th-Nov-2018.

2. **Deepan.P,** and Dr. L.R. Sudha, **"Comparison of Deep CNN Models for Object Classification in Remote Sensing Images",** National Conference on Machine Learning Techniques (NCMLT'18), Annamalai University, 12th, 13th-Dec-2018.

3. **Deepan.P**, and L.R. Sudha**, "An Advanced Motion detection algorithm for surveillance system",** National Conference on Future Innovations in CIST (FICSIT2k12), Adhi College of Engineering, Chennai.

Special State:

S. No.	Special State	Participated / Resource Person
1.	Resource Person in Workshop/ FDP	Five day workshop on Data Science using Python, **Topic:** Python Data Structures for Data Science and Pandas Data frame
2.		Five Day Online FDP on Data Science **Topic:** Python for Data Science- Pandas
3.		**Topic:** Problem Solving using Python
4.	Certificate & Awards	EMC Academic Associate Certified person in Cloud Infrastructure and Services from ICTACT.
5.		Oracle Academic Certified person in Oracle Java Fundamental Programming from ICTACT.
6.		Oracle Academic Certified person in Oracle Database Design and Programming with SQL from ICTACT.
7.		Mentor for Smart India Hackathon'18 at College of Engineering, Pune.

8.		Got best paper award for "Aircraft Detection of Remotely Sensed Images using YOLOv3 model"
9.	Reviewer Certificate	Acted as Reviewer for many reputed journals like Journal of Engineering Research and Reports, Proceedings of Engineering and Technology Innovation, EAI Endorsed Transactions on Mobile Communications and Applications, Asian Journal of Research in Computer Science and Journal of Advances in Mathematics and Computer Science.
10.	Valued Added Course	Act as Instructor for value added Course on "Oracle ilearning Java Fundamentals and Java Programming" for Third year ECE students in June'2017 and 40 students received International Level Oracle Certification in Java Fundamentals and Java Programming.
11.	FDP Attended	National Programme on Technology Enhanced Learning(IIT MADRAS) FDP in 28.09.2012
12.		ICTACT Sponsored One week FDP on Mobile Application Development in January 2016.
13.		ICTACT Sponsored One week FDP on Cloud Infrastructure and Services in June'2016.
14.		ICTACT Sponsored Five Days FDP on Oracle Java Fundamental Programming in Auguest'2016.
15.		Two days FDP on National Defense Cyber Security at Anna University Chennai in September'2016.
16.		ICTACT Sponsored Five Days FDP on Oracle Database Design and Programming with SQL in Jaunary'2017.
17.		Five Days FDP on "Digital Image Processing" at SSN College of Engineering, Chennai in June 2017.
18.		ICTACT Sponsored Two Days FDP on "Introduction To Mobile App Development" at Arasu Engineering College in January 2018.
19.		Five days FDP on "Deep Learning Techniques" at College of Engineering, Trivandrum, Kerala in March 2018.
20.		21day DST-NRDMS Sponsored summer training on "Geo Spatial Technologies" at National Institute of Technical Teachers Training and Research (NITTTR), Chennai from 5th-25th June-2019.
21.		Hands on FDP: Data Science using Python held from 18.05.2020 to 22.05.2020 organized by Jeppiar Institute of Technology, Chennai.
22.		Three days FDP on "Research Pedagogy and Contemporary Research" Organized by St. Martin's Engineering College, Telangana from 23rd to 25th June 2022.
23.		One week FDP on "Amazon Web Services" organized by M.Kumarasamy College of Engineering, Karur from 22nd to 27th Aug. 2022.
24.		One week FDP on "Talking Research to Next Level"

		organized by Sri Venkateshwara College of Engineering, Bengaluru from 26th to 30th Sep. 2022.
25.		5 Days FDP on "Ethical Hacking" organized by Blackbuck Engineering and KKR Institute of Technology and Science, Hyderabad from 27th Feb to 3rd Mar. 2023.
26.		5 Days Online FDP on "Machine Learning and it is Real-Time Applications" organized by Sri Manakula Vinayagar Engineering College, Pondy from 6th to 10th March 2023.
27.		NPTEL FDP Python for Data Science March 2023.
28.		One day Technical Workshop on Research prospects in knowledge mining at DSEC, Perambalur on 1st Sep. 2012.
29.		IEEE India council EDS Chapter sponsored One day National level workshop on "Recent trends of Nano Technology in Electronics" at AEC in 08 February 2016.
30.		One day Workshop on BigData Analytics using Hadoop at AEC, in 18 March 2016.
31.		One day Workshop on Mobile Application Development at AVCCE, Mayiladuthurai on 19 December 2016.
32.	Workshop Attended	Five Days Workshop on "Biomedical Signal Processing and Computational Biotechnology for Healthcare applications" at B.S. Abdur Rahman Crescent University, Vandalur in May 2017.
33.		Two Days Workshop on "Python Programming" at Annamalai University in January 2018.
34.		Two Days National Workshop on "BHUVAN-Geo portal for Precision Farming" at Annamalai University in 8th and 9th January 2019.
35.		One Day Workshop on "Everything you need o know about writing a publication- ready manuscript" Organized by Weily and Annamalai University on 20th November, 2019.
36.		One Day Workshop on "Art of Research Writing and Plagiarism Check" Organized by Annamalai University on 12th December, 2019.
37.		One Day Workshop on "An Overview of Patents & Procedure for Protection", organized by the Ramco Institute of Technology, Rajapalayam on 20.01.2023.
38.		One Day IP Awareness/Training program under "National Intellectual Property Awareness Mission" on 27th March 2023.
39.		Got the NPTEL Course certificate for "Introduction to Machine Learning".
40.	NPTEL & Coursera Certificate	Got the NPTEL Course certificate with Elite in "Python for Data Science" on 26.03.2023.
41.		Got the Coursera certificate for "Python Data Structures" on 02.12.2022.

42		Got the Coursera certificate for "Introduction to Data Analytics" on 13.01.2023.
43.		Got the Coursera certificate for "Deep Learning Applications for Computer Vision" on 18.12.2022.
44.		Got the Coursera certificate for "Machine Learning with Python" on 01.03.2023.
45.	Seminar and Webinar	Two Days Seminar on "Recent Trends in Artificial Intelligence in Thinking Machines and Reforming Health Care" at St. Martin's Engineering College, Secunderabad in May 2022.
46.		Webinar on "Machine Learning with Python" Organized by Annamalai University from June 22-27, 2020.
47.		Webinar on "Deep Learning" 05.05.2020
48.		Workshop on Machine Learning and Deep Learning using Python, 22.05.2020.
49.		Webinar on "Essential Tips on Publishing High Impact Journals" 25th Apr 2020.
50.		Webinar on "Best Practices in using ProQuest Databases for Research, Teaching and Learning", 5th Aug 2020.
51.		Seminar on "Recent Trends in Artificial Intelligence in Thinking Machines and Reforming Health Care", organized by St. Martin's Engineering College, Telangana from 20th and 21st May 2022.
52.		One Awareness Program under National Intellectual Property Awareness Mission on March 27th 2023.

Professional Membership:

S. No.	Name of the Professional Society and Academy	Membership No.
1.	EMC Academic Associate	03318375071448
2.	ICT Academy (ICTACT)	8011224
3.	International Association of Engineers	172789
4.	Computer Science Teacher Association (CSTA)	Deepanp
5.	Oracle iLearning	deepan_p

Personal Skills:

- Hardworking and committed with strong leadership and co-ordinations skills
- Strong result and goal orientation, tenacious & highly focused
- Clear, accurate and concise reporting.

Extra Curricular:

- Active participant in NSS and Trekking.
- Event organizer in the school annual day functions and other technical events.

Personal Details:

Fathers name   : Mr. V.PERUMAL

Date of Birth   : 11.04.1989

Sex   : Male

Marital Status   : Married

Mother tongue   : Tamil

Languages known   : English, Tamil.

Nationality   : Indian

Address   : D. No. 2/1D, West Street,

                              Ammapalayam (PO),

                              Perambalur (DT) -621101.

Declaration:

I implore that my application may be considered sympathetically and I may be given a chance to serve under your guidance, in which case, I assure that I shall discharge my duties to your satisfaction.

Place: **Yours Sincerely,**

Date: **(Dr. P. DEEPAN)**