**CURRICULAM VITAE**

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| **Dr M. SURESH ANAND,**  C1,Gowtham Flats,  34 & 35 ,Kothavalchavadi Street,  Saidapet, Chennai-15.  **Ph**: **9443033115 , 8148433115**  **E-mail:** [**suresh.anandm@gmail.com**](mailto:suresh.anandm@gmail.com)  **Scopus id :**[**https://www.scopus.com/authid/detail.uri?authorId=57192697670**](https://www.scopus.com/authid/detail.uri?authorId=57192697670)  **Google scholar :** [**https://scholar.google.co.in/citations?user=PLsxtU8AAAAJ&hl=en**](https://scholar.google.co.in/citations?user=PLsxtU8AAAAJ&hl=en) | 7 |

**Objective:**

Looking forward for an exciting career in an innovative challenging environment and to gain in-depth knowledge in the area of specialization.

**Career Profile:**

* Having **17 Years** of Experience in Teaching.
* Working as Professor in Sri Sairam Engineering College, Chennai from 01 Oct 2018 – till date.
* Working as Associate Professor in Sri Sairam Engineering College, Chennai from 01 Aug 2013 – 30 Sep 2018.
* Worked as Assistant Professor in Sri Sairam Engineering College, Chennai from 01 Aug 2009 – 31 July 2013.
* Worked as Lecturer in Sri Sairam Engineering College, Chennai from 23 Jan 2007 – 31 July 2009
* Worked as a Lecturer in SKP Engineering College, Tiruvannamalai. (17 July 2003 –30 June 2005).
* Worked as a System Engineer in Approve Infoways, Nungambakkam, Chennai. (19 June 2002 – 11 July 2003).

**PATENTs: ( 11 – PUBLISHED & 1 GRANTED)**

1. Filed Indian patent on 16.10.17 the innovation titled “**An Intelligent Indian Sign Language Recognition System with Hybrid Classification Approach Using Hand Gesture Images and NAM Speech Signal**”. **(Application No 201741036635)**
2. Filed Indian patent on 06.11.19 the innovation titled **“Posture Detection and alerting system using RTSC algorithm”. (Application No 201941045066).**
3. Granted Australian patent on 07.10.20 the innovation titled **“An Intelligent Embedded Tool Recognition System for CNC Machines Using Deep Learning Algorithms”. (Patent No 2020102208).**
4. Filed Indian patent on 12.10.20 the innovation titled **“Machine Learning Based Techie Safety Belt to Prevent the Sleepiness of Drivers”. (Application No 202041044323).**
5. Filed Indian patent on 12.10.20 the innovation titled **“A Machine Learning Based Automated Toilet Cleansing System with Automated Doors”. (Application No 202041044307).**
6. Filed Indian patent on 12.10.20 the innovation titled **“An Automatic Hospital Stretcher That Monitors Vital Data’s of The Patients”. (Application No 202041044322).**
7. Filed Indian patent on 06.11.20 the innovation titled “**Smart ATM using AI and IoT Technology**”. **(Application No 202041048645)**
8. Filed Indian patent on 23.12.20 the innovation titled “**Emotion Recognition Fitness Assistance for Fitness Blenders using Mel Frequency Ceptral Coefficients (MFCC) and spectral Modulation features**”. **(Application No 202041056021)**
9. Filed Indian patent on 11.02.21 the innovation titled “**Voice Based Alerting and Assisting Tool For Visually Challenged**”. **(Application No 202141005842)**
10. Filed Indian patent on 07.04.21 the innovation titled “**Remotely Operated Vehicle (Rov) For Inspection Of The Hrt ( Head Race Tunnels) In Hydro-Electric Pla**”. **(Application No 202141016373)**
11. Filed Indian patent on 21.04.21 the innovation titled “**IOT Based Smart E-Meter**”. **(Application No 202141018332)**
12. Filed Indian patent on 26.08.21 the innovation titled “**Micro Lecture Learning System Using Speech Recognition And Machine Learning**”. **(Application No 202141038679)**
13. Filed Indian patent on 17.01.2022 the innovation titled “**Cardiovascular Disease Prediction System Using Machine Learning**”. **(Application No 202241002512)**

**FUNDS RECEIVED:**

1. Received fund from AICTE **Rs. 11,47,891/-** (reference: letter dated 18.03.20)for establishing Skill and Personality Development Cell under the Institutional Development Schemes-Skill and Personality Development Programme Centre for SC/ST Students.

**BOOKS PUBLISHED: ( 3 BOOKS & 2 BOOK CHAPTERS)**

1. Published a paper Book titled “**A Tutorial Approach Python Programming**”. ISBN: 9781648052699, 164805269X, Publisher: Notion press, Edition: 1 On 21 Jan 2020.
2. Published a book chapter titled **“Technical Analysis on Spammer detection using Machine Learning and data mining techniques”** in Book titled **“Machine Learning and Applications**”. ISBN: 978-93-86923-47-9, Publisher: Dipti Press PvtLtd. Chennai. Sep 2020.
3. Published a book chapter titled **“A Water Level and Dam Observing System Network Through IoT”** in Book titled **“Renewable Energy with IoT and Biomedical Applications** ” ISBN: 978-81-952585-4-3, Publisher: Dipti Press PvtLtd. Chennai. 2021.
4. Published a Text Book titled “**Augmented and Virtual Reality**”. ISBN: 978-93-90770-81-6, Publisher: Technical Publications, First Edition on Oct 2021.
5. Published a Text Book titled “**Computer Vision**”. ISBN: 978-93-90770-92-2, Publisher: Technical Publications, First Edition on Oct 2021.
6. Published a Text Book titled “**Python Essentials for Beginners**”. ISBN: 978-93-92473-11-1, Publisher: Blue Ink Publishing Home, First Edition on Mar 2022.

**PROFESSIONAL SOCIETY MEMBERSHIPS**

* Life Member, **Computer Society of India**.(**Member# I1505853)**
* Member, Institute of Electrical and Electronics Engineers, **IEEE(Member# 90928514)**
* Life Member, The Indian Society For Technical Education, **ISTE (Member # 131580)**
* Life Member, International Association of Computer Science and Information Technology, IACSIT
* Life Member, International Association of Engineers member, IAENG

**AWARDS &achievements:**

* Resource Person for National Workshop on "Exploring Python" organized by Dept. of ECE, Muthayammal Engineering College , Rasipuram on 8th November, 2021.
* Resource Person for RAAKCET Online Webinar Series (ROWS) Season 2 on "Exploring Python Insights” organized by Dept. of CSE, RAAK College of Engineering and Technology, Pondicherry on 25th June, 2021.
* Received “Best Faculty Teaching Award” Amaravati Research Academy’s Faculty Excellence Awards 2020 on 16.03.2020.
* Resource person for one-day workshop on python Hands-on Training held at Saveetha School of Engineering, Chennai on 16.11.19.
* Resource person for faculty development program on problem solving and python programming held at Sri Sairam Engineering College, Chennai on 11.06.18.
* Reviewer reputed International Journals like Cognitive Systems Research, Concurrency and Computation: Practice and Experience and etc.
* Published papers in reputed International Journals.
* Presented papers in various National and International Conferences.
* Published papers in Scopus Indexed Journals.
* Produced Centum result in many handled subjects

**general Responsibilities:**

* Acted as Session Chair in International conference on Advanced Scientific Innovation in Science and Engineering and Technology (ICASISET '19) held inSri Sai Ram Engineering, 19 &23April2019.
* Acting as department ISO Coordinator
* Criteria7 in-charge in NBA
* Acted as Session Chair In-charge for International Conferences ICCST’17
* Acted as Poster Presentation Chair in International conference on Computing and Communications Technologies (ICCCT '19) held inSri Sai Ram Engineering, 21& 22 February 2019.
* Acted as Paper Presentation Chair in National conference on Recent Trends in Computing and Information Technology (NCRTCIT '19) held inSri Sai Ram Institute of Technology, 7th March 2019**.**
* Acted as Symposium Coordinator
* Acted as Time Table Coordinator for CSE department
* Acted as Project & Mini-project Coordinator
* Acted as Class Committee Coordinator
* Lab In-charge of CSE Department Lab

**JOURNALS & PUBLICATIONS: ( 13 SCOUPUS , 1 SCI )**

1. Published paper in International Journal of Engineering Research & Technology (IJERT) Volume 2, Issue No.7 July 2013, titled **“Device Independent & LMS Compatibility SCORM Based Hybrid Course Package Auto Generator”**.
2. Published paper in International Journal of Innovative Research and Development (IJIRD) Volume 2, Issue No.5 May 2013, titled “**Hybrid Image Segmentation Using Edge Detection with Fuzzy Thresholding for Hand Gesture Image Recognition**.
3. Published paper in International Journal of Innovative Research and Development (IJIRD) Volume 2, Issue No.5 May 2013, titled “**Indian Sign Language (ISL) Translation System for Sign Language Learning**.
4. Published paper in International Journal of Advanced Research in Computer Science (IJARS) Volume 4, No.2 Jan-Feb 2013, titled “**An Integrated Two Way ISL (Indian Sign Language) Translation System – A New Approach**”.
5. Published paper in International Journal of Emerging Technology and Advanced Engineering (IJETAE) Volume 3, Special Issue 1, January 2013, titled “[**Cyclic Group Protocol: An Improved Protocol for Multicast Video Transmission in MANET**](http://www.ijetae.com/files/Conference%20ICISC-2013/IJETAE_ICISC_0113_25.pdf)”.
6. Published paper in International Journal of Advanced & Innovative Research (IJAIR) Volume 3, Issue No.4, Apr 2014, titled “**Robust Face Recognition Technique Based on Granular Computation and Hybrid WLD Spatial Feature Extraction**”.
7. Published paper in International Journal of Advanced & Innovative Research (IJAIR) Volume 3, Issue No.4, Apr 2014, titled “**New Identities of Sybil Nodes Detection Based on RSS in MANETs**”.
8. Published a paper in an International Journal of Technical Research and Applications (IJTRA), May 2015, titled “**Protecting against Alliance Attacks by Malicious Nodes in Manets Using CBDS Technique with Originating Message**”.
9. Published a paper in an Advances in Natural and Applied Sciences (ANAS), Volume 10, Issue no. 5, May 2016, titled **“Recognition and Translation of Sign Language Using SVM”.**
10. Published a paper in an Advances in Natural and Applied Sciences (ANAS), Volume 10, Issue no. 5, May 2016, titled **“Application of L- NAM Speech in Voice Analyzer”.**
11. Paper published in Circuits and Systems , Scientific Research Publishing, Volume 7, Issue no. 10 ,May 2016, titled “**Enhancing the Efficiency of Voice Controlled Wheelchairs Using NAM for Recognizing Partial Speech in Tamil**”
12. Paper published in Circuits and Systems, Scientific Research Publishing, Volume 7, Issue no. 8, June 2016, titled “**An Efficient Framework for Indian Sign Language Recognition Using Wavelet Transform**”
13. Published a paper in IJCTA, Volume 9, Issue no. 28,November 2016, titled **“Recognition of NAM Speech - Indian English Alphabets using self-designed NAM microphone with HMM-Viterbi”**
14. Published a paper in IJCTA, Volume 9, Issue no. 28, November 2016, titled **“An Effective Recognition of Partial Speech Using Non Audible Murmur (Nam) For Speech Impaired Children”**
15. Published a paper in International Journal of Pharmacy and Technology, Volume 9, Issue no. 1, April 2017, titled **“Multimodal Features and Hybrid Classification for Indian Sign Language Recognition”**
16. Published a paper in International Journal Of Advances In Signal And Image Sciences, Volume 3, Issue no. 1, June 2017, titled **“Curvelet Transform And Hmm Classifier Based Sign Language Recognition System”**
17. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, February 2018, titled **“Developing Indian Sign Language Recognition System for Recognizing English Alphabets with Hybrid Classification Approach”**
18. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, February 2018, titled **“Anonymous Location-Support and Self-Reliance Routing Protocol For MANET”**
19. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, February 2018, titled **“Energy-Efficient and Corrective Algorithm for Improving Stability in Wireless Sensor Networks”**
20. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, February 2018, titled **“Reliable Link and Mobile-Based Optimized Routing Scheme for MANETs”**
21. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 3, March 2018, titled **“Probabilistic Broadcast Protocol for Data Gathering using neighbour nodes in Mobile IoT”**
22. Published a paper in International Journal of Engineering & Technology, Volume 7, Issue no. 2.33, June 2018, titled **“Highly sensitive-pin-accessibility for ATM using human body communication”.**
23. Published a paper in International Journal of Engineering & Technology, Volume 7, Issue no. 4.39, December 2018, titled **“Sugar Level Detection Using Thermal Images”.**
24. Published a paper in International Journal of Engineering & Technology, Volume 7, Issue no. 4.39, December 2018, titled **“Chronic Conjecture and Uncertainty Detection by Machine Learning”.**
25. Published a paper in Journal of Emerging Technologies and Innovative Research (JETIR), Volume-6 Issue-6, June 2019, titled **“Human Posture Detection System Using Real Time Self Calibrating Algorithm”.**
26. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1, October 2019, titled **“Sugar Level Detection using Thermal Image of the Palm”.**
27. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1, October 2019, titled **“Posture Detection and Alerting System Using Rtsc Algorithm”.**
28. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled **“Augmented Reality in Military Applications”.**
29. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled **“Military Database Security via Justapose Database Shuffling”.**
30. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled **“I-Voting on Cloud Framework”.**
31. Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled **“Blockchain in India”.**
32. Published a paper in European Journal of Molecular & Clinical Medicine, Volume-7 Issue-2, November 2020, titled **“An Emotion Recognition Based Fitness Application for Fitness Blenders”.**
33. Published a paper in Journal of Ambient Intelligence and Humanized Computing, April 2021, titled **“Coordination schemes for resource oriented operation in wireless sensor actuator networks with queuing theory”.(SCI)**
34. Published a paper in Journal of Physics: Conference Series- Advances in Computer Science Engineering, Volume 1964 ,Issue-4, July 2021, titled **“CNN and Computational Configuration Mathematical Chromosomal Defect Analysis in Medical Images”.**
35. Published a paper in Journal of Physics: Conference Series- Advances in Computer Science Engineering, Volume 1964 ,Issue-4, July 2021, titled **“A Shared Blockchain Intelligent Public Protection Service Framework”.**
36. Published a paper in Journal of Physics: Conference Series- Advances in Computer Science Engineering, Volume 1964 ,Issue-4, July 2021, titled **“Security Protection of Information Utilizing Halfway Speculation”.**

**CONFERENCES ATTENDED:**

1. Presented paper in National conference - NCICT’07 held in Sri Sai ram Engineering college, titled “**Developing information system and map server for Mobile users using open-source software**”.
2. Presented paper in National conference - NCFACE’07 held in V.L.B Janaki Ammal Engineering college, titled “**Mobile GIS - Map server for low end Mobile users using open-source software**”.
3. Presented paper in National conference - NACIS ‘09 held in Madha Engineering College, titled “**An enhanced MAC system for voice and data traffic in wireless ad-hoc networks**”.
4. Presented paper in International conference - ICICT ‘09 held in TCS ,Sipcot ,titled “**Handoff in Fourth Generation Mobile Networks**”.
5. Presented paper in **ICISC’13 -**International Conference on Information, Systems and Computing held inSri Sai ram Engineering College on 4- 5,January, 2013,titled,”[**Cyclic Group Protocol: An Improved Protocol for Multicast Video Transmission in MANET**](http://www.ijetae.com/files/Conference%20ICISC-2013/IJETAE_ICISC_0113_25.pdf)”.
6. Presented paper in NCONNECT-2014, **-**National Conference on Novel Notions in Engineering Communication and Technologyheld inS.A.Engineering College on 7th March,2014, ,titled,**” Detecting New Identities of SYBIL Node in MANETs based on RSS”.**
7. Presented paper in ICECC-2014, **-** International Conference on Electrical Communication and Computing held inSri Sai ram Engineering College on 13th&14th March 2014, titled,**” Detecting New Identities of SYBIL Node in MANETs based on RSS detection”.**
8. Presented paper in NCRTIT’15, **-** National Conference on Recent Trends in Information Technology held inAdhiparasakthi Engineering College on 28th March2015, titled,**” Protecting Against Alliance attacks by Malicious nodes in MANETS using CBDS Technique with Originating Message”.**
9. Presented paper in National conference on computing technologies todays and beyond held inR.M.K college of engineering, 7th march **2016**, titled,**”Authentication using dynamic encryption with modified clued click points”.**
10. Presented paper in International conference on engineering technology and science held inMuthayammal engineering college, 18th& 19th march, **2016**,titled,**”Modernization of High Resolution Image from low Resolution Image using Scale invariant Approach along with depth Estimation method”.**
11. Presented paper in National Conference on Computing communication & information Technology held in T.J.S Engineering college, 7th April **2016**,titled,**”Privacy preserving personalized AD-Dissemination based on interest aggregation and piggy backing”.**
12. Presented paper in International Conference on Computational Science and Technology held in Sri Sai Ram Engineering , 9th and 10th**March 2017**,titled,**”Tumor Detection in Prostate Organ using Canny Edge Detection Technique”.**
13. Presented paper in International Conference on Computational Science and Technology held in Sri Sai Ram Engineering,9th and 10th**March 2017**,titled,**”TPBA: Trust Probability-Based Authentication for Vehicle-to-Vehicle Communication”.**
14. Presented paper in National conference on Recent Issues in Network Galaxy-RING held in R.M.D. Engineering college, **4th April 2017**, titled**, ”Extended Prediction Based Authentication for Vehicle-to-Vehicle Communication”.**
15. Presented paper in National conference on Smart Innovations in Communications and Computing(NCSICC '18) held in Sri Sai Ram Engineering, 27**th March 2018**,titled**,”SUGAR LEVEL DETECTION USING THERMAL IMAGES”.**
16. Presented paper in National conference on Smart Innovations in Communications and Computing(NCSICC '19) held in Sri Sai Ram Engineering, 5**th March 2019**,titled**,”Detecting blood glucose level using thermal image of palm”.**
17. Presented paper in National conference on Smart Innovations in Communications and Computing(NCSICC '19) held in Sri Sai Ram Engineering, 5**th March 2019**,titled**,”Posture detection and correction system”.**
18. Presented paper on the title **"Developer Connector Application Using Machine Learing Rake Algorithm”**, Second National Conference on Smart Innovations in Communications and Computing(NCSICC-2021)
19. Presented paper on the title **"Predicting The Rate Of Dementia For Alzheimer's Using Machine Learning”,** Second National Conference on Smart Innovations in Communications and Computing(NCSICC-2021).

**SEMINAR& WORKSHOP ATTENDED:**

1. Attended Two Days Workshop on **Grid Computing** held in Sathyabama University, Chennai on 19th and 20th march 2010.
2. Attended One Day Workshop on **"Art of Journal and Thesis Writing"** held in Sri Sai ram Engineering College on **19th**January 2012.
3. Attended seminar on “**Data Warehousing and BI & Cloud Computing**” held in Sri Sai ram Engineering College on 19**th** Dec 2012.
4. Attended Seminar on **“Reals On networks”** held in Sri Sai ram Engineering College on **13th** September 2012.
5. Attended workshop on **“Science Writing / Journalism”** held in Sri Sai ram Engineering College from 13**th** Dec to 17**th** Dec 2012.
6. Attended Seminar on **“Soft Computing “,** held in Sri Sai ram Engineering College on 5**th** Jan 2013**.**
7. Attended Workshop on **“Personality Development and Soft Skills “,** held in Sri Sai ram Engineering College on 13**th**& 14**th** Mar 2014.
8. Attended Workshop on **“Android Technology “,** held in Sri Sai ram Engineering College on 7**th** Feb 2014.
9. Attended a one day workshop on “**An Awareness program on Matlab**” at Sri Sai ram Engineering college(30th December 2014)
10. Attended FDP on **“Mobile Application Development “,** held in Jeppiaar SRR Engineering College on 30**th**&31**st** Oct 2015.
11. Attended Seminar on **“REST API and Application Development “,** held in Sri Sairam Engineering on 2**nd** Sep 2015.

**STAFF DEVELOPMENT PROGRAMS ATTEDNDED:**

1. Participated in Staff Development Program “**IT in Telemedicine and E-Health**” held in Sri Sai ram Engineering College in July 2007.
2. Participated in Staff Development Program “**Instructional Design & Delivery**” held in Sri Sai ram Engineering College in Jan 2008.
3. Participated in Staff Development Program “**Web Services and Application**” held in Sri Sai ram Engineering College in May 2008.
4. Participated in Staff Development Program on “**Recent Developments In Computing**” held in Sri Sai ram Engineering College on April 2010.
5. Participated in Faculty Development Program on “**MATLAB Applications in Electrical Engineering**” held in Sri Sai ram Engineering College on March 2012.
6. Participated in Faculty Development Program on **"Role of Academic Excellence in Developing World Class Higher Learning Institutions and Faculties**” held in Sri Sai Ram Engineering College on 12**th** Dec 2012.
7. Attended 5 days Faculty Development Program on **"NextGenTechStack**” held in Sri Sai Ram Engineering College From 08.04.2019 To 12.04.2019.
8. Attended 14 days AICTE Sponsored Faculty Development Programme On **“Data Science And Exploratory Data Analysis With R And Python” ,**From 07.06.2019 To 20.06.19 held in Sri Sai Ram Engineering College.
9. Attended two weeks AICTE Sponsored Faculty Development Programme On **“Artificial Intelligence & Advanced Machine Learning Data Science” ,**From 22.11.2019 To 05.12.19 held in S.A Engineering College,Chennai.
10. Attended Three days online Faculty Development Programme On **“Disruptive Technologies” ,**From18.05.2020 To 20.05.20organized by IT department,Jeppiaar Engineering College, Chennai.
11. Attended Five days online Faculty Development Programme On **“Introduction to Data Science” ,**From18.05.2020 To 22.05.20organized by Department of computer science and engineering,Guntur Engineering College, Karnataka.
12. Attended Six days online Faculty Development Programme On **“Latest Trends and Challenges IT Industry” ,**From15.06.2020 To 20.06.20organized by Department of computer science and engineering,R.M.D Engineering College, Chennai.
13. Attended Six days online Training Programme On **“Basics in Python Programming” ,**From15.06.2020 To 20.06.20organized by SA Techno Solutions, Chennai.
14. Attended Two days online Faculty Development Programme On **“Developing E-Content for Effective Teaching Learning Process” ,**From 01.07.2020 To 02.07.20organized by Department of computer science and engineering ,St Joseph’s College Of Engineering, Chennai.
15. Attended Six days online AICTE STTP On **“Internet of Things and its Applications” ,**From26.10.2020 to 31.10.2020organized by, SRM Valliammai Engineering College, Chennai.
16. Attended Five days online FDP On **“Recent Advancements in Machine Learning and Artificial Intelligence”,** From02.11.2020 to 06.11.2020 organized by, SRM University –AP ,AndhraPradesh.
17. Attended Five days online ATAL FDP On **“Data Sciences”,** From 16.11.2020 to 20.11.2020 organized by, Indian Institute of Information Technology, Design & Manufacturing Kancheepuram.
18. AttendedAICTE sponsored Six days online STTP On **“Incorporating the techniques of Block Chain & Artificial Intelligence to face the security and privacy challenges of IT infrastructure – Industry Approach & Implementation Data Sciences”,** From 23.11.2020 to 28.11.2020 organized by, KCG College of Technology, Chennai.
19. Attended Five days online ATAL FDP On **“Cyber Security”,** From 30.11.2020 to 04.11.2020 organized by, Sri Venkateswara College of Engineering,Chennai.
20. Attended Five days online ATAL FDP On **“Machine Learning”,** From 07.12.2020 to 11.12.2020 organized by,R.M.K COLLEGE OF ENGINEERING AND TECHNOLOGY,Chennai.
21. Attended Five days online ATAL FDP On **“Data Sciences”,** From 14.12.2020 to 18.12.2020 organized by, Indian Institute of Information Technology, Vadodara.
22. Attended 5 days Online Orientation Training Programme for Mentors from 5.7.21 to 9.7.21 under National Initiative for Technical Teachers Training, AICTE.
23. Completed Module 4: Instructional Planning and Delivery of National Initiative for Technical Teachers Training, AICTE on Sep 2021.
24. Attended Five days online ATAL FDP On **“Deep Learning and Computer vision”,** From 03.01.2022 to 07.01.2022 organized by, Manipal University Jaipur.

**Educational Qualification:**

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| **Course** | **Board /University** | **Year of Completion** | **Percentage** |
| Ph.D  (I&CE) | Anna University , Chennai | April 2018 |  |
| M.Tech  (Remote Sensing) | College Of Engineering Guindy,  Anna University, Chennai | June 2007 | 7.7 |
| B.E  (C.S.E) | Arunai Engineering College,Tiruvannamalai( Madras University ) | May 2002 | 70 |
| XII | Sri.VDS Jain Higher Secondary School,Tiruvannamalai(State Board) | April 1998 | 85.6 |
| X | Sri.VDS Jain Higher Secondary School,Tiruvannamalai(State Board) | March 1996 | 87 |

**Project Details (U.G):**

**Title** : Programmable Interrupt Controller Design.

**Language** : VHDL.

**Team** : 5 members.

**Role** : Designing, coding & Simulation.

**Duration** : 3 months.

**Description:**

This project provides the simulator that we can identify the various modes of PIC and we can get the simulated output for the desired behavioral of programmable interrupt controller.

**Project Details (P.G):**

**Title** : Developing Information System and Mapserver for Mobile   
 users using open source software

**S/W Used** : Xhtml,Javascript,ArcGis.

**Role** : Designing, Coding, Implementation & Simulation.

**Duration** : 12 months.

**Description:**

This project provides free service (navigation and map serving) to mobile users.The mobile client should have internet connection and device should support JavaScript,Xhtml page rendering. This service will give the user’s area map as an image and information about that area as text as well as image (map).Also route map given to client from different source to destinations.

**Ph.D DETAILS:**

**TITLE:**An Intelligent Indian Sign Language Recognition System with HybridClassification Approach Using Hand Gesture Images and NAM Speech Signal.

**ABSTRACT:**The two basic forms of communication between people are speaking and hearing. However, there are some problems occurred to the physically challenged people like deaf and dump people. To ease the communication between them, an efficient approach for Indian Sign Language Recognition (ISLR) system is designed in this study which uses two different modalities; hand gesture images and Non-Audible Murmur (NAM) speech signal. Discrete Wavelet Transform (DWT) is used for extracting image based features and Mel Frequency Cepstral Coefficients (MFCC) is used for signal based features. Two classification approaches; K Nearest Neighbor (KNN) and Hidden Markov model (HMM) are used for the recognition or classification. The whole system is considered as a pattern recognition approach for recognizing 26 English alphabets.

Gesture is considered as one of the most and powerful communication tool among people who suffer hearing impairments. Among the various body gestures, hand gestures are emphasized to build an efficient ISLR system. Before feature extraction, segmentation of hand gesture is done using Otsu thresholding and morphological operations in order to isolate hand gesture from the background. DWT based energy features are utilized to predict the hand gestures into one of the English alphabets with the help of KNN and HMM. The classifiers are independently applied on the extracted features for the recognition and further improvement on recognition accuracy is made by hybrid classification. It has the ability to recognize the ISLR with a maximum average accuracy of 70.48% (KNN-Euclidean classifier), 80.34% (HMM classifier), and 85.07% (hybrid classifier) using 3rd level DWT features.

**Capabilities:**

* Hardworking, Deadline oriented and good at handling challenging tasks.
* Good interpersonal & Communication skills to interact well with organization members.

**Personal Profile:**

**Father’s Name :**S.Mathavan

**Date of Birth :** 05-05-1981.

**Gender :** Male.

**Marital Status :** Married.

**Languages Known :** English, Tamil.

**Nationality :** Indian.

**Declaration:**

I hereby declare that the above furnished details are true to my best of knowledge and belief.

**Place:** Chennai.

**Date:** **(Dr M.SURESHANAND)**