



**Dr. D. VETRITHANGAM**

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### CAREER OBJECTIVES

- ✓ To strive for academic excellence and impart quality education with emphasis on computer science and engineering.
- ✓ To inculcate the habit of executing the effective implementation and rectification of computer engineering problems in the minds of all concerned, which they can apply in their professional life in the future.
- ✓ To enable my students achieve their academic goals and to also encourage them to work hard and lay down the foundations for a bright and successful future.

### EDUCATIONAL BACKGROUND

S.No	Degree	College/Board	Year of completion	Pass percentage
1	<b>Ph.D.</b> [CSE]	<b>Anna University</b> , Chennai, Tamilnadu,India	December 2017	<b>Awarded</b>
2	<b>M.E</b> [CSE]	RVS College of Engineering and Technology, Dindigul. India <b>Anna University</b>	June 2009	<b>84.6%</b> (First class with distinction) <b>(University Fifth Rank)</b>
3	<b>B. E</b> [CSE]	Christian College of Engineering and Technology, Oddanchatram., India <b>Anna University (Chennai)</b>	April 2006	<b>73%</b> (First Class)
4	<b>HSC</b>	Diraviam Girls Higher secondary School, Dindigul. <b>(State Board), India</b>	March 2002	<b>87.7%</b>
5	<b>SSLC</b>	Diraviam Girls Higher secondary School, Dindigul. <b>(State Board), India</b>	May 2000	<b>92.2%</b> (School first rank)

**ACADEMIC EXPERIENCE: 12 YEARS & 11 Months**

<b>Period</b>	<b>Position held</b>	<b>Organization</b>	<b>Years</b>
09/07/2021 To Till now	Associate professor (Computer Science and Engineering)	Chandigarh University , Punjab, India	10 months
28/01/2019 To 31/01/2021	Associate professor (Computer Science and Engineering)	Ashoka Institute of Engineering and Technology, Hyderabad , India	2 years
06/08/2018 To 21/01/2019	Associate professor (Computer Science and Engineering)	AKT Memorial College of Engineering and Technology, Kallakurichi ,Tamilnadu , India	5 months, 16 days
03/08/2009 To 03/04/2018	Assistant professor (Computer Science and Engineering)	Ratnavel Subramaniam College of Engineering and Technology, Dindigul, Tamilnadu ,India	8 Years, 8 months
19/8/2006 To 30/07/2007	Lecturer (Computer Science and Engineering)	Ratnavel Subramaniam College of Engineering and Technology, Dindigul, Tamilnadu ,India	11 Months, 11 days

**Ph.D. THESIS TITLE**EFFECTIVE LOW-LEVEL FEATURE EXTRACTION FOR **CBIR** APPLICATIONS**SUBJECTS HANDLED**

- Data Mining
- Artificial Intelligence
- Object Oriented Programming
- Operating systems
- Image Processing
- Computer Architecture
- Information retrieval
- Wireless Network Systems
- Mobile Computing
- Environmental Science and Engineering
- Data Warehousing and Data Mining
- High Speed Networks
- Internet Programming

- Software Engineering
- Computer Networks
- Data structures
- Fundamentals of Computing and Programming
- Design and analysis of algorithms
- Object Oriented Programming and data structures

### TECHNICAL SKILLS

Sl. No.	Skill Title	Skill Level (Basic/Intermediate/Proficient)	Total Experience (years)	Last Used (Year)
1.	C	Proficient	5 years	2021
2.	C++	Intermediate	5 years	2021
3.	Python	Intermediate	1 year	2022
4.	Java and javascript	Intermediate	4 years	2015
5.	MATLAB	Intermediate	1 year	2015
6.	SQL	Basic	1 year	2011

### ADMINISTRATIVE RESPONSIBILITIES

2021 – Till date @ CU	<ul style="list-style-type: none"> <li>▪ OBE Coordinator</li> <li>▪ Member in Newsletter Team</li> </ul>
2019 – 2021 @ AIET	<ul style="list-style-type: none"> <li>▪ Head of the Department</li> <li>▪ NAAC &amp; NBA Coordinator</li> <li>▪ Academic and non-academic activities in the department</li> </ul>
2018 - 2019 @ AKTM CET	<ul style="list-style-type: none"> <li>▪ Associate Professor &amp; Head of Department</li> <li>▪ NBA Coordinator</li> </ul>
2009- 2018 @RVSCCE	<ul style="list-style-type: none"> <li>▪ NBA Coordinator</li> <li>▪ PG &amp; UG Project Coordinator</li> <li>▪ Academic and non-academic activities in the department</li> <li>▪ Student Counselor</li> <li>▪ Class In charge</li> <li>▪ ISO Coordinator</li> <li>▪ Executive member in Alumni Association</li> </ul>
2006 - 2007 @ RVSCET	<ul style="list-style-type: none"> <li>▪ Class In charge</li> <li>▪ Student Counselor</li> </ul>

### PROFESSIONAL COMPETENCE DEVELOPMENT

Journal Publications	Patent	Conference Publications	Workshop/ Seminar Organized	Workshop Attended	FDP Attended	Industrial Training Attended	Seminar /Webinar Attended
13	9	10	7	4	16	1	10

## 1. Papers published in Peer Reviewed Journals

S.No	Title of the Paper	Journal Name/Link	Month and Year
1	Discriminating the Pneumonia Positive Images from Covid19 Positive Images Using an Integrated Convolutional Neural Network	Mathematical Problems in Engineering Volume 2022, Article ID 5643977, 9 pages <a href="https://doi.org/10.1155/2022/5643977">https://doi.org/10.1155/2022/5643977</a> <a href="https://www.hindawi.com/journals/mpe/2022/5643977/">https://www.hindawi.com/journals/mpe/2022/5643977/</a>	Published
2	Rice Disease Detection using Artificial Intelligence and Machine Learning Techniques to Improve Agro-Business], submitted to the journal	Scientific Programming	Accepted
3	IoT Based Harmful Toxic Gases Monitoring and Fault Detection on the Sensor Dataset Using Deep Learning Techniques	Scientific Programming	Under Review
4	Plant Leaf Diseases Detection Using Image Processing and Machine Learning-A Comprehensive Review	Discrete Dynamics in Nature and Society	Under Review
5	Content Based Image Retrieval Based on Low Level Features Using Genetic Algorithm with K-Means Clustering	International Journal of Pure and Applied Mathematics, vol. 117, no. 8, pp. 31-35 <a href="https://acadpubl.eu/jsi/2017-117-8-10/articles/8/7.pdf">https://acadpubl.eu/jsi/2017-117-8-10/articles/8/7.pdf</a>	November 2017
6	Efficient Content Based Image Retrieval (CBIR) Using Multi-Feature Fusion Method	International Journal of Printing, Packaging&AlliedSciences,vol.4, no.3,pp. 1565-1575 (Annexure I)	November 2016
7	Dynamic Content-Based Image Search and Retrieval by Combining Low Level Features	International Journal of Advanced Engineering Technology. 7, no. 2, pp.898-906, E-ISSN0976-3945(Updated List) IF-2.76. <a href="https://www.semanticscholar.org/paper/DYNAMIC-CONTENT-BASED-IMAGE-SEARCH-AND-RETRIEVAL-BY-Vetrihangam-Maheswari/7dba56de2acb8dce22d50578da4d6ab3cd3ba7aa">https://www.semanticscholar.org/paper/DYNAMIC-CONTENT-BASED-IMAGE-SEARCH-AND-RETRIEVAL-BY-Vetrihangam-Maheswari/7dba56de2acb8dce22d50578da4d6ab3cd3ba7aa</a>	June 2016
8	Maintaining secrecy of users data from world scrutinizing in cloud storage	International journal of advanced research trends in engineering and technology, Volume 2 issue 3 ISSN- 2394777	March 2015
9	An Efficient Way of Detecting Numbers in Car License Plate Using Neural Network Training with GA	International journal of advanced research trends in engineering and technology, Volume 2, Issue 3, ISSN-2394777	March 2015
10	An efficient load balance routing for wireless sensor network	International Journal for Scientific Research & Development. 2, Issue 04, 2014, ISSN-2321-0613	July 2014
11	Content based image retrieval using advanced techniques	International Journal for Scientific Research & Development IJSRDV2I3274,ISSN-2321 0613 Volume 2, Issue 3, pp.132-134	June 2014
12	An energy efficient cluster- based load balance routing for wireless sensor network	International Journal for Scientific Research & Development Vol. 2, Issue02,2014 ISSN-2321-0613	May 2014

13	Signature Based Mining Framework for Event Sequences and Its Applications in Healthcare Data Using Language Model	Journal of Theoretical and Applied Information Technology 20178 – JATIT vol 59 ISSN: 1992-8645, E- ISSN:1817-3195 ( <i>Annexure II</i> ) pp.167-171	January 2014
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## PATENT PUBLICATIONS

1. Indian Patent published on “INTELLIGENT-BASED IOT SOLUTIONS FOR SMART ELEVATOR CONTROL AND MANAGEMENT SYSTEMS IN REAL-TIME” Application Number- 202211035107  
Link: <https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202211035107>
2. Indian Patent published on “A MILK BOILING VESSEL WITH A MILK STORAGE CONTAINER” Application Number- 202211035106  
Link: <https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202211035106>
3. Indian Patent published on ”AUTOMATED IOT BASED SMART AGRICULTURE MONITORING AND PROTECTION SYSTEM WITH DRONE” Application Number-202111026157  
Link: <https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202111026157>
4. Indian Patent published on “OPTIMIZATION BASED DIAGNOSIS OF SOFT TISSUES TUMORS USING DEEP LEARNING” Application Number- 202111035021  
<https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202111035021>
5. Indian Patent published on” AUTOMATED IOT BASED SMART HARMFUL TOXIC GASES AND ENVIRONMENT MONITORING SYSTEM USING ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING” Application Number-202111040150  
<https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202111040150>
6. Indian Patent published on “CLOUD IOT BASED MONITORING AND DETECTION OF POTHOLE IN ROADS AND DANGEROUS HOLES IN LIVING AREA” Application Number-202111051858  
<https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202111051858>
7. Indian Patent published on “MACHINE LEARNING BASED PRODUCTS CLASSIFICATION AND PREDICTION IN DEPARTMENTAL STORE” Application Number-202111059216  
<https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202111059216>
8. Indian Patent published on “SMART WEARABLE DEVICE TO MONITOR THE FETAL HEALTH DURING 3<sup>rd</sup> TRIMESTER FOR PREGNANT WOMEN” Application Number-202111061150  
<https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202111061150>
9. Indian Patent published on “DETECTING THE EARLY STAGE AND BREAKDOWN OF DAMEGED POWER CORDS AND TRANSFORMERS USING MOBILE SENSOR NETWORK” Application Number-202211004369  
<https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202111051858>
10. Indian Patent published on “INTEGRATED SYSTEM FOR IDENTIFICATION OF SKIN DISEASE AND ITS CAUSES USING DEEP LEARNING TECHNIQUES” Application Number-202211006195  
<https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202211006195>
11. Indian Patent published on “AUTOMATED DIET AND EXERCISE RECOMMENDATION SYSTEM BASED ON PERSONALIZED HEALTH DATA USING DEEP LEARNING” Application Number- 202211021061  
<https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/ApplicationStatus/202211021061>

## 9. Publications in conference proceedings

S.No	Title of the Scheme	Institution name	Scheme	Month & Year
1	State-of-the-Art Review on the models, techniques and datasets to diagnose Covid- 19 diseases	Woxsen University, Telangana, India	International Conference	Under Review
2	Multi Disease Prediction Based on Combined Deep Reinforcement Boltzmann Machines	ICACCT-2021 / Chandigarh University, Punjab AIP conference proceedings	International Conference	Accepted
3	A Survey on various Image Analysis Techniques	ICACCT-2021 / Chandigarh University, Punjab AIP conference proceedings	International Conference	Accepted
4	A Survey on Content-Based Image Search And Retrieval	Ashoka Institute of Engineering and Technology, Hyderabad, India	International Conference	September -2019
5	Content Based Image Retrieval using ordered Dither Block Truncation Coding Features	Christian College of Engineering and technology, Oddanchatram	International Conference	March - 2017
6	Preserving privacy of Users Data from public auditing in cloud storage	RVS College of Engineering and technology	International Conference	April- 2015
7	Intelligent Quality Evaluation Systems for Grading of Fabrics	RVS College of Engg &Tech, Coimbatore	International Conference	July -2012
8	Recent trends on image mining techniques	Velammal Engineering College, Chennai	National conference	March -2011
9	Integrated file replication and Consistency maintenance in P2P file systems	SSM college engineering & technology	National conference	March- 2011
10	Intrusion detection in homogeneous and heterogeneous wireless sensor networks	PSNA College of Engineering & Technology, Dindigul.	National Conference	April- 2009

## 10. Participations & Presentations:

S.No	Title of the Scheme	Institution Name	Scheme	Month & Year
1	Research Essentials	Chandigarh University, Punjab	FDP	Feb -2022
2	Modelling and simulation for Research	Dr.NGPIT ,Tamilnadu	Induction Program	Dec- 2021
3	Data Science for Power Utilities	National Power Training Institute Bangalore-ATAL	FDP	Dec- 2021
4	Recent Trends in Artificial Intelligence	Lakshmi Narain College of Technology-ATAL	FDP	Dec- 2021
5	Implementation of National Education Policy 2020: Role of Faculty in Higher Education Institutions	Chandigarh University, Punjab	FDP	July -2021

6	Intelligent systems for Sustainable development	St.Peter's engineering college, Hyderabad.	FDP	June -2021
7	FDP on Internet of Things	Electronics Service and Training Centre -AICTE training and learning (ATAL) academy	FDP	June- 2021
8	Emerging Trends in Artificial Intelligence & Data Science	Ashoka Institute of Engineering and Technology,Hyderabad, India	Webinar	August -2020
9	Technological Advances in Wireless Sensor Networks	Ashoka Institute of Engineering and Technology,Hyderabad, India	Webinar	August -2020
10	Recent Approaches in Big Data Analytics and Data Science	Ashoka Institute of Engineering and Technology,Hyderabad, India	Webinar	August -2020
11	One Week FDP on Recent Trends in Computational Technologies	Ashoka Institute of Engineering and Technology,	FDP	July-2020
12	FDP on Artificial Intelligence	ATAL-NIT Jamshedpur	FDP	June-2020
13	Python Programming	University College of Engineering	e-Quiz	June-2020
14	6 days FDP on Machine Learning and Data Science for Engineering Applications	Shadan College of Engineering & Technology	FDP	June-2020
15	2 Days International FDP on Bitcoin and Cryptocurrency in Blockchain Technology	Panimalar Institute of Technology	FDP	June-2020
16	One Platform to Discover all Scholarly E-Journal Literature	Informatics Publishing Limited, Bangalore	Webinar	June-2020
17	Five Days FDP on Cyber Security	G Narayanamma Institute of Technology and Science	FDP	June-2020
18	Moodle Learning Management System	JNTUH College of engineering Sultanpur	FDP	June-2020
19	Five Days on Innovation to Academicians	Ramachandra College of engineering,Eluru	FDP	May-2020
20	Five Days FDP on Artificial Intelligence	Vignan's Institute of Engineering for Women	FDP	May-2020
21	Today's opportunities for tomorrow's technology -A Perspective	KIT kalaigair karunanidhi institute of technology	Webinar	May-2020
22	One Week FDP on IOT for Emerging Applications	Kakatiya Institute of Technology & Science	FDP	May-2020
23	Roles of IOT on Industrial Applications	Pantech Solutions	Webinar	May-2020
24	6 days FDP on Latex, R Programming and Python	Gurunanak Institute of Technology (GNIT)	FDP	May-2020

25	3 Days FDP on Agile Technology	St Joseph's College of Engineering	FDP	May-2020
26	Embedded Systems and Robotics	IIT Bombay	Workshop	February-2020
27	Python 3.4.3	Gurunanak Institute of Technology (GNIT)	Training	January-2020
28	R Programming	Gurunanak Institute of Technology (GNIT)	Training	January-2020
29	Teaching Methodology	IT Dept, RVSCET	FDP	March- 2014
30	ISTE Workshop on Aakash for Education	IIT Bombay	Workshop	November -2012
31	Network Security and software configuration management	RVS College of Engineering and Technology, Dindigul.	Two-day Seminar	December- 2009
32	Simulation Software's Qualnet & NS2	PSNA College of Engineering & Technology, Dindigul	One day Workshop	March 2009
33	Networking and Networking simulators	RVS College of Engineering and Technology, Dindigul.	Two-day Workshop	March 2007

### **CERTIFICATE COURSES**

- Python Data Analysis – LinkedIn Learning
- Python for Data Science Essential Training Part 1 - LinkedIn Learning
- Securing Linux Systems – Coursera
- Blockchain, Cryptoassets, and Decentralized Finance- Coursera

### **Ph.D. SUPERVISOR**

- Have 4 PhD research scholars

### **LANGUAGE SKILLS**

✚ English

✚ Tamil

### **ACHIEVEMENT**

✚ Secured University Fifth Rank

✚ Got School First Rank in SSLC

✚ Awarded Cash Prize for TBT in E-Yantra IIT Bombay Workshop

✚ 'Certificate of Excellence' along with amazon vouchers for successful completion of Samsung Prism work let titled "Federated Learning\_Differential Privacy\_Core\_Count"



**MEMBER IN PROFESSIONAL BODY**

- Life time MEMBER OF INDIAN SOCIETY OF TECHNICAL EDUCATION (MISTE)
- Life time CSI&IAENG

**REFEREE**

<b>Name</b>	<b>Address</b>	<b>Telephone &amp; Email</b>	<b>Number of years known</b>
Dr.N. Uma Maheshwari	Professor & Department of CSE ,PSNA College of Engineering and Technology Dindigul, Tamilnadu, India	+91 9443833045 numamahi@psna.edu.in <a href="mailto:numamahi@gmail.com">numamahi@gmail.com</a>	15 Years
Dr.A.Ramesh kumar	Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode,Namakkal (Dist), Tamilnadu ,India.	+91 9390063776 rameshkumar@ksrct.ac.in arameshkumaar@gmail.com	5 years
Dr. Vijay Kumar Sinha	Associate Professor , Department of Computer science and Engineering, Chandigarh University ,	+91 9781552900 vijay.e10038@cumail.in prof.vksinh@gmail.com.	1 year
Dr. ShrutiAggarwal	Associate Professor, Department of Computer Science & Engineering Thapar University, Punjab-147004, India.	+919803698036 Shruti.aggarwal@thapar.edu drshruti.cse@gmail.com	2 years
Dr.B.Arunadevi	Professor, Department of Electronics and Communication Engineering, Dr.N.G.P Institute of Technology, Dr.N.G.P Nagar- Kalapatti Road, Coimbatore- 641048, Tamilnadu, India.	+91 9790407668 arunadevi@drngpit.ac.in	2 years
Dr.A.Poobalan	Assistant Professor, Department of Computer Science and Engineering Anna University Dindigul,Tamilnadu ,India	+91 9994463623 poobalan.a@auucedgl.ac.in apoobal@gmail.com	15 years

## PERSONAL PROFILE

Husband Name : R. VIJAYAKUMAR  
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Citizenship : India  
Languages known : Tamil, English  
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Date: 20/06/2022  
Place: Punjab



Dr.D.VETRITHANGAM