



## Bio data

**Name:** Dr. D. P. Gaikwad

**Date of Birth:** 7 October 1971

**Designation:** Associate Professor and Head,  
Department of Computer Engineering.

### Academic Record:

Institute/University	Degree	Academic Year	Filed of Specification
Swami Ramanand Teerth Marathwada University, Nanded	Ph.D. (CSE)	2017	Computer Engineering
College of Engineering, Pune	M.Tech.(CSE)	2006	Computer Engineering
SGGS College of Engineering, Nanded	B.E.(CSE)	1995	Computer Engineering
Science College, Nanded	HSC	1990	General Science
Shri Sharada Bhavan High School, Nanded	SSC	1988	General

### Professional Appointment and /Employment

University/Institute	Designation	Period
AISSMS College of Engineering	Assistant Professor, Head of Department	30 Aug. 2007 to till date
Pimpri Chinchwad College of Engineering, Pune,	Assistant Professor	19 Jan 2007 to 29 Aug.2007
Army Institute of Technology, Dighi, Pune	Lecturer	19 Jul. 2003 to 19 Jan. 2007
AISSMS, Polytechnic, Pune	Lecturer	11 Aug. 1998 to 19 Jul. 2003

**No. of M.Tech student Guided:**

**07**

### Teaching Areas

#### A. Graduate Level

1. Microprocessor and Microcontrollers
2. Network security
3. Design of Algorithms

#### B. PG Level

1. Machine Learning
2. Advanced Computer Networks
3. Advanced Computer Architecture

4. Distributed Operating System
5. Principles of Compiler Design

4. Research Methodology
5. Soft Computing optimization Algorithm.
6. Object Oriented Programming

## **Research Publications**

### **National and International Journals:**

- [1] **D P Gaikwad**, “Performance of Multilayer Perceptron Based Sentiment Analysis on Hyper Parameters and optimizers,” In Journal of Emerging Technologies and Innovative Research, ISSN NO. 2349-5262, Volume 6, Issue 5, Page No: 408-416, **May-2019.(UGC)**
- [2] **D.P. Gaikwad**, “ Hyper Parameters Tuning of N-gram evaluation based Machine Learning Model for Sentiment Analysis,” in IJRAR December 2018, Volume 5, Issue 04, pp.428-436, **2018.(UGC)**
- [3] **D P Gaikwad** and et.al ,“Autonomous Vehicle with Raspberry Pi using Deep Learning,” International Journal of Electronics, Electrical and Computational System (IJEECS), ISSN 2348-117X, Volume 7, Issue 3, pp.pp.08-313, **March 2018.**
- [4] **D P Gaikwad** and **Kunal Mahurkar**, “Improved K-means for improved raw-data in Diagnosis of Thyroid Diseases,” International Journal of innovative research in science, Engineering and technology (IJIRSET), ISSN(Online): 2319-8753, ISSN (Print): 2347-6710, Vol. 6, Issue 6, **June - 2017.**
- [5] **Yogita Ahuja** and Dr. **D.P.Gaikwad**, “A Novel Approach for Network Secrecy by Generating Secrets of Packet Erasures Using Jammer,” International Journal of Innovative Research in Science, Engineering and Technology, Vol. 6, Issue 12, **December 2017.**
- [6] **D P Gaikwad** and **Reshmi Agale**, “Web based intelligent irrigation and Security System Using Internet of Things,” International Journal of Innovative research in Computer and Communication Engineering (IJICCE), ISSN(Online): 2320-9801, SSN (Print): 2320-9798, Vol. 5, Issue 2, pp. 2122-2125, **February 2017.**

- [7] **D P Gaikwad and et.al.** “Sign-Talk: Hand Gestures recognition System,” International Journal of Computer Applications (0975 –8887), Volume 160, No 9, pp. 13-17, **February 2017.**
- [8] **P Mulak, D.P. Gaikwad** and N.R.Talhar, “K-Nearest Neighbor and Boundary Cutting Algorithm for Intrusion Detection System”, Information Systems Design and Intelligent Applications, Springer India, 269-278,**2016.**
- [9] **D. P. Gaikwad and Dr .R. C. Thool**, “Voting Combination Based Ensemble of Soft Computing Techniques for Inline intrusion Detection System”, In Asian Journal of Mathematics and Computer Research, ISSN No. : 2395-4205 (Print), 2395-4213 (Online), Vol.: 8, Issue. 4, International Knowledge Press, Page 338-355, **2015.**
- [10] **Prerna Randive and D.P. Gaikwad**, “Intrusion Detection System Architecture for Different network attacks”, In International Journal of Research in Engineering and Technology (IJRET), Volume: 04 Issue: 10, ESSN: 2319-1163 & PISSN, 2321-7308, pp.212-216, **Oct-2015.**
- [11] **D. P. Gaikwad and Dr .R. C. Thool**, “RLMIDS: Rule Learner and Multithreading Techniques for Inline Intrusion Detection System with Genetic Algorithm for high Speed Network”, In Asian Journal of Mathematics and Computer Research, 7(2), ISSN: 2395-4205 (P), ISSN: 2395-4213 (O), International Knowledge Press, Page 148-161, **2015.**
- [12] **Nilufar Zaman and D.P. Gaikwad**, “Comparison of Stacking and Boost SVM for KDD Dataset”, International Journal of Engineering Research and General Science Volume 3, Issue 3, Part-2 , ISSN 2091-2730, May-June, **2015.**
- [13] **D. P. Gaikwad and Dr.R.C.Thool**, “Intrusion Detection System using Ripple Down Rule learner and Genetic Algorithm”, In International Journal of Computer Science and Information Technologies, Vol. 5 (6) , 6976-6980, ISSN:0975-9646, **2014.**
- [14] **D. P. Gaikwad and Dr.R.C.Thool**, “Online Anomaly Based Intrusion Detection System Using Machine Learning”, in i-manager’s Journal on Cloud Computing, Vol.1, No.1, Nov-Jan **2014.**

- [15] **D. P. Gaikwad and Dr.R.C.Thool**, “Intrusion Detection System using Cascade Forward Neural Network with Genetic Algorithm Based Feature Selection”, In International Journal on Advanced Computer Engineering and Communication Technology (IJACECT) , ISSN: 2278-5140, vol-3, issue-3 , **2014**.
- [16] **D. P. Gaikwad** and et.al. “Detection of Malicious Activities in Computer Network Using Soft Computing”, in i-manager’s Journal on Software Engineering, Vol. 9 No.11, July - **September 2014**.
- [17] **D. P. Gaikwad and et.al.** “Detection of Malicious Activities in Computer Network Using Soft Computing”, i-Manager's Journal on Software Engineering”, Volume 9,Issue 1, **2014**.
- [18] **Nilufar Zaman and D. P. Gaikwad**,” Comparison for Classification of Clinical Data Using SVM and Nuero-fuzzy”, in International Journal of Emerging Engineering Research and Technology Volume 2, Issue 7, PP 231-239, ISSN 2349-4395 (Print) & ISSN 2349-4409 (Online),October **2014**.
- [19] **D. P. Gaikwad and Dr. R. C. Thool**, “A Framework for Simulation of Intrusion Detection System using Support Vector Machine”, In International Journal of Computer Applications (0975 – 8887) Volume 76– No.2, August **2013**.
- [20] **D. P. Gaikwad, R.C. Thool**, “A Framework for Simulation of Intrusion Detection System using Support Vector Machine”, International Journal of Computer Applications,Volume 76, Issue 2, **2013**.
- [21] **D. P Gaikwad**, S Jagtap, K Thakare and V Budhawant, “Anomaly Based Intrusion Detection System Using Artificial Neural Network and Fuzzy Clustering”, International Journal of Engineering Research and Technology (IJERT), ISSN: 2278-0181, Vol. 1 Issue 9, November- **2012**.
- [22] **D.P. Gaikwad**, “Revisiting the experiment on Content Based Image Retrieval System Using Aliveness Detection”, in i-Manager's Journal on Software Engineering, Volume7, Issue 2, **2012**.
- [23] **D.P. Gaikwad**, Trupti Jagdale and et.al. “Hiding the Text and Image Message of Variable Size Using Encryption and Compression Algorithms in

Video Steganography”, International Journal of Engineering Research and Applications, ISSN: 2248-9622 Vol. 1, Issue 2, pp.102-108, **2011**.

- [24] **D. P. Gaikwad**, Yogesh Gunge and et.al, “User Dependent Handwriting Recognition Using Offline OCR for Arithmetic Operation and Text Processing”, in i-Manager's Journal on Software Engineering, Volume 6, Issue 1, PP. 28, **2011**.
- [25] **D.P.Gaikwad** and **Dr. J. V. Aghav**, “Revisiting the Experiment on Detecting of Replay and Message Modification,” International Journal of Computer Engineering and Technology (IJCET), ISSN 0976-6367 (Print), Volume 1, Number 3, , pp. 403-417, Nov-Dec **2010(UGC)**.
- [26] **D. P. Gaikwad and S.J. Wagh**, “Colour Image Restoration for Effective Steganography, published in **Asia Pacific I-manager’s Journal on Software Engineering** Vol. 4 | No. 3| January - 65, pp.65-71, ISSN-0973-5151, March **2010**.

### **National and International Conferences**

- [1] **Dr D P Gaikwad And Kunal Mahurkar**, “Normalization using Improved K-Means applied in diagnosing thyroid disease with ANN,” In proceeding of 2017 International Conference on Trends in Electronic and Informatics (ICEI), Tirunelveli, India , **11-12 May 2017, IEEE Xplore : 22 February 2018**.
- [2] **D P Gaikwad** et.al., “Autonomous Vehicle with Raspberry Pi using Deep Learning,” In proc. International conference on Emerging Trends in Science, Engineering and Technology (ICETSET) Pune, 21-22 March **2018**.
- [3] **D P Gaikwad** and **Rshmi Agale**, “Automated Irrigation and Crop Security in Agriculture Using Internet of Things,” In proceeding of 2017 international Conference on Computing, Communication, Control and Automation (ICCUBEA), 17-18 Aug. **2017, IEEE Xplore: 13 September 2018**.
- [4] **D. P. Gaikwad** and Anuja Desai, “Real Time Hybrid Intrusion Detection System using Signature Matching Algorithm and Fuzzy-GA,” In proceeding of 2016 **IEEE** International Conference on Advances In Electronics,

Communication and Computer Technology (ICAECCT), 2-3 Dec. 2016, Pune, India, **IEEE Xplore**: 08 June 2017.

- [5] **D. P. Gaikwad** and Dr. R. C. Thool, “DAREnsemble: Decision Tree and Rule Learner based Ensemble for Network Intrusion Detection System”, International Conference on ICT for Intelligent Systems (ICTIS – 2015), Ahmedabad, India, Publication Springer – **Verlag Germany (Springer SIST)**, ISSN Number – 2190-3018, November 28 -29, **2015**.
- [6] **D. P. Gaikwad** and Dr. R. C. Thool,” Intrusion Detection System Using Bagging Ensemble Method of Machine Learning”, In first International Conference on Computing, Communication, Control and Automation (ICCUBEA-2015), PCCOE, Pune and proceeding published in **IEEE Explore, 2015**.
- [7] **D. P. Gaikwad** and Dr. R.C. Thool, “Intrusion Detection System Using Bagging with Partial Decision Tree Base Classifier”, In 4th International Conference on Computing, Communication and Control (ICAC’3-15), Publications of Proceedings in Procedia Computer Science Journal 49 (2015) 92 – 98, 2015, **Elsevier B.V by Elsevier, 2015**.
- [8] **D. P. Gaikwad** and Dr. R. C. Thool, “Intrusion Detection System Using Ensemble Methods with Genetic Algorithm Based Feature Selection”, In 3rd International Conference on Recent trends in Engineering Technology (ICRTET’2014), Chandwad, Nasik, India, and proceeding published and powered by **Elsevier,2014**.
- [9] **D. P. Gaikwad** and Dr. R. C. Thool, “Intrusion Detection System using Ripple Down Rule learner and Genetic Algorithm”, in International Conference on Advances in Computing, Communication and Informatics (ICACCI), Pune, **2014**.
- [10] **D. P. Gaikwad** and Dr. R. C. Thool, “Performance Evaluation of Machine Learning classifiers for Intrusion Detection System”, in International Conference on Science and Technology (ICST-2k14), Sponsored by Department of Science and Technology, India at Indapur, Pune, **2014**.
- [11] **D P Gaikwad**, Prachi Bedekar and Prashant Abhang, “Medical Image Segmentation for Brain Tumour Detection” in proceeding of International

Conference and Workshop on Emerging Trends in Technology (ICWET 2011) – TCET, Mumbai, India, ACM ISBN No 978-1-4503-0449-8, **2011**.

- [12] **D.P.Gaikwad** and Dr.R.C.Thool, “A Survey on Architecture Taxonomy and Products of Intrusion Detection System,” In Proceeding of the International Conference on Computer Applications (ICCA-2011) at **Pondicherry**, 24-27 Dec 2010, ISBN: 978-981-08-7304-2: doi: 10.3850/978-08-7304-2\_0382,pp.63-75, **2011**.
- [13] **D P Gaikwad** and Dr. S Wagh, “Real Time Face Tracking and Audio Command for Controlling the Cursor Operations”, International Conference on Sunrise Technologies 13th-15th Jan 2011 Conference Proceedings –CSE, **2011**.
- [14] **D.P. Gaikwad, Dr. S.J. Wagh**, “Image Restoration Based LSB Steganography for Colour Image”, AISA-PACIFIC Regional Conference in ICTM-2010 on Innovations and Technology Management, NMIMS, MPSTME, Mumbai, (MS), India, 05-06 **March, 2010**.
- [15] **D P Gaikwad** and S J Wagh, “ Genetic Algorithm based filters and ANN based Classifier ”, **ACM International Conference & Workshop on Emerging Trend in Technology 2010**, Thakur College of Engineering & Technology, Mumbai (MS), India, 2627, Feb, **2010**.
- [16] **D. P. Gaikwad** and S J. Wagh , “Genetic Algorithm based Filter and ANN based Classifier For Face Recognition”, International Conference and Workshop on Emerging Trends in Technology (ICWET 2010) – TCET, Mumbai, India, ACM ISBN:978-1-60558-812-4, PP. 147-150, **2010**.
- [17] **D.P. Gaikwad and M. A. Pradhan**, “Recent Trends in IDS: Approaches and Tools,” in National Level Conference on Futuristic Computer Application (NCFCA-09) at AISSMSCOE, Pune, **2009**.

## **Paper Reviewed (International Conferences and Journals)**

### **International Journals**

1. **IEEE Access**, The Multidisciplinary Open Access Journal.**Title:** A Systematic Literature Review of Hybrid Approaches Based on SVM in Intrusion Detection.

2. **IEEE Access**, The Multidisciplinary Open Access Journal **Title:** a novel approach to intrusion detection using ensemble learning with feature augmentation.
3. **International Journal of Computational Intelligence Systems**. **Title:** Applying ANN to Build the Prediction Model for Site Selection of a Convenience Store.
4. **Concurrency and Computation: Practice & Experience**, Willey Online Library. **Title:** Lightweight efficient network for defect classification of polarisers.
5. **Concurrency and Computation: Practice and Experience**, Willey Online Library. **Title:** An intrusion detection algorithm based on bag representation with ensemble SVM in cloud computing.
6. **International Journal of Computational Intelligence Systems (IJCIS)**. **Title:**Performance Analysis of Clustering for Brain Tumor Detection In MRI Images..
7. **International Transactions on Computer and Network Security**. **Title:** Design of Policy Based Packet Filtering Firewall.
8. **International Journal of Computational Intelligence Systems**. **Title:** Using Multi-Conditional Minimum Thresholds in Temporal Fuzzy Utility Mining.
9. **International Journal of Computational Intelligence Systems (OA)**. **Title:**Improved Harmony Search Algorithm for Optimized Link State Routing Protocol in Vehicular Ad-hoc Network.

### **International Conferences**

1. 2016 International Conference on Computing Communication Control and automation (ICCUBEA). **Title:** Sentiment Analysis on Twitter Data-set using Naïve Bayes Algorithm.
2. 2016 International Conference on Computing Communication Control and automation (ICCUBEA). **Title:** Study of Electronic Stethoscope as Prospective Analysis Tool for Cardiac Sounds
3. 2016 International Conference on Computing Communication Control and automation (ICCUBEA). **Title:** Framework for searching research papers in dataset using soft computing approach.



4. 2016 International Conference on Computing Communication Control and automation (ICCUBEA). **Title:** On Demand Recommendation using Association Rule Mining Approach.
5. 2016 International Conference on Computing Communication Control and automation (ICCUBEA). **Title:** Dynamic Document Representation Using Auto Summarization.
6. Coordination Control of DFIG under Distorted Grid Voltage Conditions Using MATLAB Simulink
7. 2016 International Conference on Computing Communication Control and automation (ICCUBEA). **Title:** Analyzing Associativity among Mirror Neurons for Financial Profiling: A Proposal.
8. Third International conference on Computing, Communication, Control and Automation (ICCUBEA 2017) **Title:** Classification of ECG for Atrial Fibrillation using NFC card – A Smart Medicare Record
9. Third International conference on Computing, Communication, Control and Automation (ICCUBEA 2017) **Title:** Survey of Memory streaming techniques for virtual machine in cloud environment
10. Third International conference on Computing, Communication, Control and Automation (ICCUBEA 2017) **Title:** Hybrid Crypto-System Approach use in Secure Intrusion Detection System for MANET
11. Third International conference on Computing, Communication, Control and Automation (ICCUBEA 2017) **Title:** Conditional Random Fields Based Improved Ranked Keyword Search Technique for Multi-Owner Multi-User System in Cloud Computing.
12. In fourth post graduate Conference of Computer Engineering(cPGCON), 2015, **Title:** Secure Data De-duplication with Application Awareness on Cloud Storage System
13. In fourth post graduate Conference of Computer Engineering(cPGCON), 2015, **Title:** Iris Image Categorization for Efficient Large-Scale Iris Identification
14. In fourth post graduate Conference of Computer Engineering(cPGCON), 2015, **Title:** Enhancing Virtual Machine Performance in Cloud Using Cache as a Service

15. In fourth post graduate Conference of Computer Engineering(cPGCON), 2015,**Title:**Climbable Face Image Retrieval from Sparse Impute
16. In fourth post graduate Conference of Computer Engineering(cPGCON), 2015,**Title:**Advanced Image Steganography Technique Based on Extended Visual Cryptography Scheme
17. In fourth post graduate Conference of Computer Engineering(cPGCON), 2015,**Title:** Recovering Degraded Document Images by using Binarization Technique.
- 18.IEEE International Conference on Computing, Analytics and Security Trends (CAST-2016). **Title:** Efficient Block wise Data Hiding for Securely Digital Image Sharing by Diverse Image Media.
19. IEEE International Conference on Computing, Analytics and Security Trends (CAST-2016). **Title:** Phishing Website Detection Using Fuzzy Logic Technique.
20. IEEE International Conference on Computing, Analytics and Security Trends (CAST-2016). **Title:** Non-Binary Audio Secret Sharing Scheme.
21. IEEE International Conference on Computing, Analytics and Security Trends (CAST-2016). **Title:** Development of RSA Simulink Block in MATLAB for simulation of encryption & decryption.

### **Foreign University Visit**

<b>Name of Overseas University Visited</b>	<b>Duration</b>	<b>Agency which sponsored the visit</b>	<b>Purpose of Visit</b>	<b>Achievement</b>
Stafford Shire University, Stafford, UK.	21 Days	UKIRI: Scholarship £3000.	To study the pedagogy of the Overseas University	Attended the lectures of different classes. Got exposure with the pedagogy of Stafford Shier University and other University of England

### Award Received

1. International Scientist Award on Engineering, Science and Medicine as **Best Researcher Award** at Visakhapatnam, India on 16 and 17 November 2019.

### Judge / Chair Person / Expert Talk / FDP.

1. Worked as **Judge** for A state level project competition event organized by "
2. Worked as **Chair person** for Fifth National Conference "on Recent Advantages in Computer Engineering (**RACE-2017**) at Modern Education Society's College of Engineering, Pune.
3. **Guest of Honour**: A two day's National Conference on Recent Advances in Engineering Sciences organized by Bharati Vidhyapeth's College of Engineering Lavale, Pune. Topic: Soft Computing.
3. **Resource person** in Faculty Development programme on "Awareness on open resource platform for online research and self-study"
4. **Resource person** in Faculty Development programme on "**Steganography**" at AISSMS Polytechnic, Sponsored by MSBTE, Mumbai.
5. **Resource person** in Faculty Development programme on "Microprocessor Laboratory" at Wadia College of Engineering on **23 December** 2016.
- 6, **Resource person** in Faculty Development programme on "One day Faculty Development Programme on "**Microprocessor**" at Pimpri Chinchwad College of Engineering and Research Ravet, Pune, **13 December** 2016.
7. **Expert talk** on "Artificial Intelligence" at AISSMS College of Engineering, Electronic Department.
8. **Expert talk** on " **Vision- Mission-PEO\_PO\_CO: framing, Mapping, Assessment and Attainment** at AISSMS College of Engineering.

## Course/Seminar/Symposium/Workshop/Organized/Attended.

### Organized

1. **Organised** faculty Development Programme on Vision- Mission- PEO\_PO\_CO:framing, Mapping, Assessment and Attainment at AISSMS College of Engineering. 10-15 June, 2019.
2. **Organized** Two days National level Workshop on "Machine learning and its Application in Engineering, at AISSMS College of Engineering, Pune, 16-17 March 2018.
3. Organized National workshop on "Soft computing", at AISSMS College of Engineering, Pune 2015.
4. **Organized** National workshop on "Machine learning and its Applications ", ,at AISSMS College of Engineering, Pune, 2016.

### Attended

1. Attended Workshop on "Deep Learning" conducted by **NVIDIA**, Delhi and organized by Dy. Patil College of Engineering, Lohgaon, Pune 2018.
2. Faculty Development Programme on Data Science at Shivaji University, Kolhapur (17 June - 22 June 2019).
3. Completed Sun Education Services course in "Sun Java Programming Language" SL 275 Organized by AISSM'S COE and Sun Microsystems
4. Completed the faculty Development Program in "Microsoft Technologies" at Persistent System Ltd., Pune from 16 June to 20 June 2008
5. Attended the workshop on "Information Security" during 31 Dec 2008 to 04 Jan 2009 under Information Security Education and Awareness Project (ISEA), **Ministry of Information Technology**, Government of India at COE, Pune.
6. "**Java I**" Certification through examination Administered by **BRAINBENCH**.
7. Attended two days' workshop on "Use of Open Source Technology in Engineering" from 19 Jan to 20 Jan 2007 organized under Quality Improvement Programme of Pune University"
8. Completed "Object Oriented Analysis and Design using UML with fundamentals of Rational Rose" (Course Code DEC475) from 22/04/2008 to 24/04/2008 organized by IBM at AISSMSCOE, Pune.

9. Completed “**Induction Training Phase–I**” organized by **ISTE**, New Delhi from 17 June 2002 to 12 July 2002
10. Completed “**Induction Training Phase– II**” organized by **ISTE**, **New Delhi** from 25 Nov 2002 to 20 Dec 2002.
12. Certificate course in “Computer Hardware Maintenance, Internet, Networking and Multimedia” conducted during the period 14/2/2003 to 23/05/2003 under continuing Education Programme, at Govt. Polytechnic, Pune. Research grant/ scholarship.

### **Administration Responsibilities Held**

1. Currently working as **Head, Department of Computer**, AISSMS College of Engineering, Pune.
2. Worked as **Head, Department of Computer Engineering**, Pimpri Chinchwad College of Engineering, Pune.
3. Worked as In charge of **Research and Development**, AISSMS College of Engineering, for 3 years.
4. Worked as **NBA Co-ordinator** of Computer Department (2010-2014).
5. Worked as senior supervisor of Pune University for two years.
6. Subject **chairman of Computer and Network security**, since 2012, SPPU
7. Practical **chairman** of Microprocessor and Interfacing techniques, SPPU.
8. Working as Chairman of Machine Learning Subject of ME (Computer), SPPU.
9. Worked as Subject Expert on Local Selection Committee at Modern Education Society's College of Engineering on 9 June 2017, (SPPU, Pune).
10. Worked as **Screening / Evaluation Committee** for internal promotion / higher AGP through CAS at Modern Education Society's College of Engineering, Pune on 4 July 2017.
11. Worked as **Screening cum Evaluation Committee** for placement of Teacher in higher AGP at Modern Education Society's College of Engineering, Pune on 26 April 2016.

**Mr. D P Gaikwad**