

CURRICULUM VITAE

Dr. SUNIL BHAGWANRAO MANE

Computer Engineering & IT Dept.
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A proactive and enthusiastic individual with expertise in training and development. Has boldness and vision to initiate new ideas and implement innovative approaches through strategic direction.

ACADEMIC PROFILE: -

- **Ph.D (Computer Engineering)** --
Savitribai Phule Pune University,
Pune
(July-2015)
- **M. TECH. (Computer Engineering):** 69.80%
Dr. Babasaheb Ambedkar Technological (Distinction)
University, Lonere. Raigad.
(Oct-2005)
- **B. E. (Computer Science & Engineering):** 69.62%
S.G. G. S. COE and Tech. Nanded. (Distinction)
Swami Ramanand Teerth Marathwada
University, Nanded.
(June-2002)
- **HSC:** 76.67%
Maharashtra State Board of Secondary (Distinction)
& Higher Secondary Education,
Divisional Board: -Latur.
(March-1998)

TEACHING EXPERIENCE:- (Total 16.3 Yrs.)

- Presently working as Associate Professor in Department of Computer Engineering & Information Technology, College of Engineering, Pune (COEP). From 5th Jan 2012 to till date.
- Worked as Assistant Professor (5th Pay Scale) in Department of Computer Engineering & Information Technology, College of Engineering, Pune (COEP). From 5th Jan 2009 to 4th Jan 2012
- Worked as Lecturer in Department of Computer Engineering & Information Technology, College of Engineering, Pune (COEP) From 08th Nov 2005 to 4th Jan 2009
- Worked as Lecturer in Department of Information Technology From 5th Sept. 2005 to 5th Nov. 2005 at PDES's College of Engineering, Hadapsar, Pune
- Worked as Lecturer in Department of Computer Engineering from 5th August 2004 to 30th August 2005 at Dr. B.A.T.U. Lonere, Raigad
- Worked as Lecturer in Department of Computer Engineering from 25th August 2002 to 30th August 2003 at Rajendra Mane College of Engineering and Technology, Devrukh, Ratnagiri

Ph. D. Thesis :

Title: "Security Issues In Outsourced Database Service (ODBS) Models"

Supervisor: Dr. Pradeep K. Sinha, Vice Chancellor & Director, IIIT Naya Raipur

M.Tech. Dissertation:-

Dissertation: -

A dissertation entitled as "Efficient Bandwidth Utilization using Compression for Handheld DBMS", a new concept had been implemented for the handheld DBMS where the bandwidth between handheld users and the standalone server has been used efficiently. The experimentation was carried out on desktop machines and it is proposed for handheld devices (like simputer, PDA, etc.).

Skills Used: SQL Server 2000, Core Java, JDBC, Windows 2000.

Computer & IT Department, COEP
Seminars/Symposium/Workshop Organized:

Sr. No.	Title of Workshop/Seminars/ Symposium	Duration	Number of Participants
1.	Seminar on Ethical Hacking at COEP by Mr. Ankit Fadia	8 th December 2006	1000
2.	Seminar on Ethical Hacking at COEP by Mr. Ankit Fadia	8 th March, 2006	800
3.	Workshop on Java for Students under TDP-CDP cell of TEQIP, at COEP	22 nd January to 3 rd February, 2007	45
4.	IBM Technology Day at COEP in association with IBM	30 th August, 2008	110
5.	Seminar on AJAX at COEP in association with Tibco, Pune	19 th January, 2008	80
6.	One Day Symposium on "High performance Computing in Academia and beyond" in association with C-DAC, Pune	14 th November, 2009	170
7.	Two Days Symposium on "Emerging Trends in Security in IT 2010"	5 th to 6 th March, 2010	450
8.	ISTE Approved TEQIP Sponsored Two Weeks Short Term Training Program on "Tool Assisted Software Analysis for Practical Applications"	10 th to 19 th December, 2012	31
9.	Industry Visit to Chitale Dairy, Bhilwadi Station, Tal. Palus Dist: Sangli, Maharashtra INDIA, PIN: 416303. To enhance the knowledge of computerization in the interdisciplinary domain	23 rd January, 2014	16
10.	TEQIP sponsored One Week Faculty Development Program on "Recent Trends in Cryptography and Network Security" in COEP	18 th to 22 nd February, 2016	70
11.	Industry Visit to AVAYA, Pune for T.Y. B.Tech (Computer Engineering) students on 5 th August, 2016	5 th August, 2016	88
12.	QIP Sponsored One Week Faculty Development Program on "Recent Trends in Cyber Security", in COEP	13 th to 17 th February, 2017	64
13.	Industry Visit to Persistent Systems Limited, Pune for T.Y. B.Tech (Information Technology) students on 5 th August, 2016	24 th March, 2017	71
14.	ISEA & TEQIP-III Sponsored One Week Faculty Development Program on "Cyber Forensics and Information Security (CFIS)", in COEP	4 th to 8 th December, 2017	88
15.	ACM India summer school on "Cyber Security and Malware Analysis" hosted by COEP co-sponsored by Quick Heal and ISEA Project Ph-II	17 th to 28 th June, 2019	66

Details of Workshops/Conferences/Seminars/STTPs Attended:

Sr. No.	Title of Training	Duration	No of Days	Remark
1.	AICTE-ISTE Sponsored STTP on "Modern Computer Network" at Dr. B. A. Technological University, Lonere, Raigad (M.S.).	03 rd to 14 th November 2003	Two Weeks	AICTE
2.	AICTE-ISTE Sponsored STTP on "Embedded System Design" at Dr. B. A. Technological University, Lonere, Raigad (M.S.).	1 st to 13 th December 2003	Two Weeks	AICTE
3.	AICTE- ISTE Sponsored STTP on "Computer Vision", at Dr. B. A. Technological University, Lonere, Raigad (M.S.).	1 st to 12 th March 2004	Two Weeks	AICTE
4.	Faculty Development Program at Infosys, Mangalore	5 th to 30 th December 2005	Four Weeks	Others
5.	Workshop on "Computer Forensics & Data Recovery" at COEP	21 st & 22 nd August 2006	02 Days	TEQIP
6.	Workshop on "Information Security – Digital Signature" at COEP	18 th & 19 th August 2006	02 Days	TEQIP
7.	Workshop on "Cyber Law" at Govt. College of Engg. Aurangabad	8 th to 10 th September 2006	03 Days	TEQIP
8.	Workshop on Fluency in English	10 th to 12 th July 2006	03 Days	TEQIP
9.	Faculty Development program on "Teachers as Leaders"	17 th November 2006	01 Day	TEQIP
10.	Workshop on "Practical Aspects of Parallel Processing" at C-DAC, Pune	21 st to 27 th November 2006	One Week	Central Government
11.	Workshop on "Network Security" at IIT, Kharagpur	8 th to 13 th May 2006	One Week	Central Government
12.	Convergence06 "New Frontiers in Database Research" , at IIT Bombay	18 th & 19 th March, 2006	02 Days	Central Government
13.	Completed Certification Training on Oracle 9i for Application Developer and DBA at SQL Star International, Pune	6 Months (Part Time) 2007	Six Months	TEQIP Sponsored
14.	Short Term Training Course on "Programming with Java", COEP, Pune	22 nd Jan. to 3 rd February, 2007	Two Week	TEQIP
15.	Workshop on "System Administration and Network Security" at IISc, Bangalore	14 th May to 8 th June 2007	Four Weeks	Central Government

16.	Workshop on “Compiler Construction: From Practice to Theory” at COEP, Pune	7 th September 13 th September 2007	One Week	TEQIP
17.	Convergence07- A “Gateway to Networks Research” at IIT Mumbai.	10 th & 11 th March 2007	02 Days	Central Government
18.	TECS Week 2007 Workshop on “Data Intensive Computing” at TRDDC, Pune	3 rd to 7 th January 2007	One Week	Others
19.	TECS Week 2008 Workshop on “Human Computer Interaction, Virtual reality & Data Visualization” at TRDDC, Pune	7 th to 11 th January 2008	One Week	Others
20.	Workshop on Information Security at COEP, Pune	6 th to 10 th July 2009	One Week	TEQIP
21.	Workshop on “ Performance Enhancement on Multi-Core Processors & GPUs” at C-DAC, Electronics City, Bengaluru, India	21 st to 24 th June, 2010	One Week	Central Government
22.	Certified Ethical Hacker Version7 at Fluxonix Educational Services, Pune	14 th to 19 th March, 2011	One Week	Others
23.	Staff Development Programme on “Neural Network Design” at Sinhgad College of Engineering, Pune	13 th to 25 th June, 2011	Two Week	AICTE Sponsored
24.	Faculty Development Programme on “A Graphical Programming Language LabVIEW and Industrial Applications” at College of Engineering, Pune	14 th to 25 th May, 2012	Two Week	AICTE Sponsored
25.	Short Term Course on “LaTeX for Technical Documentation”, at College of Engineering, Pune	12 th to 16 th June, 2012	One Week	TEQIP
26.	Workshop on “Scientific Computations on General Purpose Graphical Processing Units(SciCompGPU)”, at College of Engineering, Pune	18 th to 22 nd June, 2012	One Week	TEQIP
27.	Symposium on “Accelerating Biology 2013” at C-DAC, Pune	20 th to 22 nd February, 2013	Three Days	Central Government
28.	Symposium on “Accelerating Biology-2015 : Catalyzing Evolution” at C-DAC, Pune	20 th to 22 nd January, 2015	Three Days	Central Government

29.	Embedded System Design Using Altium's IDE and FPGA	15 th to 26 th January, 2015	Two Week	AICTE Sponsored
30.	“Academic Research Summit in Computer Science (CS) and Related Areas” Organized by Association for Computing Machinery (ACM) India, Microsoft Research and Infosys Ltd.	29 th and 30 th January, 2016	Two Days	Industry
31.	“Select Topics in Signal Processing and Machine Intelligence with Hands-On”	23 rd May to 3 rd June, 2016	Two Week	AICTE Sponsored
32.	“Wavelet Transforms and Its Applications”	27 th June to 8 th July, 2016	Two Week	TEQIP
33.	Symposium on “Accelerating Biology-2017” at C-DAC, Pune	17 th to 19 th January, 2017	Three Days	Central Government
34.	Symposium on “Accelerating Biology-2018” at C-DAC, Pune	09 th to 11 th January, 2018	Three Days	Central Government
35.	Outcome Based Education and Accreditation	2 nd to 6 th July 2018.	One Week	TEQIP
36.	3 rd Winter School on "Optimization and Optimal Control : A data-based Approach"	3 rd to 7 th December, 2018	One Week	TEQIP
37.	OBE Workshop under TEQIP	10 th -11 th December 2018	Two Days	TEQIP

Publication Details:

Sr. No.	Title of Paper	Book/Journal/Conference Details	International/National
01.	Genetic Algorithm Approach for Obstacle Avoidance and Path Optimization of Mobile Robot	Advances in Intelligent Systems and Computing book series (AISC, volume 810) Advances in Intelligent Systems and Computing, vol 810. <i>Springer</i> , Singapore pp 649-659, 2018	Book Chapter
02.	Detecting Lateral Spear Phishing Attacks in Organizations	IET Information Security, 04 December 2018, 10.1049/iet-ifs, 8pp. ISSN 1751-8709 <i>Scopus, SCI Index</i>	International Journal
03.	State of Research on Phishing and Recent Trends of Attacks	Journal on Computer Science, December - February 2018 issue, ISSN Print: 2347-2227, ISSN Online: 2347-6141	International Journal

04.	State of Research on User Training Against Phishing with Recent Trends of Attacks	CASS Journal on "National Security National Development", Vol.5, No.2, Page No. 38-53 April, 2018, ISSN 2347-9191	National Journal
05.	State of Research on User Psychology Involved in Phishing Attacks	CSI Communications, Security Corner, Vol. No. 42, Issue 2, May 2018 ISSN 0970-647X	National Journal
06.	A Novel Approach to solve the Challenges in Sentiment Analysis	International Journal of Computing and Technology, Volume 4, Issue 5, May 2017, ISSN : 2348 - 6090	International Journal
07.	Product Rating using Opinion Mining	International Journal of Computer Engineering In Research Trends, Volume 4, Issue 5, May-2017, pp. 161-168 ISSN (O): 2349-7084	International Journal
08.	Detection of Forgery in Art Paintings using Machine Learning	International Journal of Innovative Research in Science, Engineering and Technology, Vol.6, Issue 5, May 2017, ISSN 2319-8753	International Journal
09.	Authentic Techniques of Authentication in Microservices	International Journal of Current Advanced Research, Vol.6; Issue 4; April 2017; Page No. 3342-3345 ISSN: O: 2319-6475, ISSN: P: 2319-6505	International Journal
10.	Real Time Obstacle Detection for Mobile Robot Navigation Using Stereo Vision	IEEE International Conference on Computing Analytics and Security Trends (CAST-16), College of Engineering Pune, India. Dec 19-21, 2016 <i>Scopus</i>	International Conference
11.	An Analysis on Data Accountability and Security in Cloud	International Conference on Industrial Instrumentation and Control (ICIC), College of Engineering Pune, India. May 28-30, 2015 <i>Scopus</i>	International Conference
12.	Analyzing Different Cache Replacement Policies on Cloud	International Conference on Industrial Instrumentation and Control (ICIC), College of Engineering Pune, India. May 28-30, 2015 <i>Scopus</i>	International Conference
13.	Oblivious Information Retrieval on Outsourced Database Servers	International Journal of Scientific & Engineering Research (IJSER), Vol. 5, Issue 5, May 2014, ISSN:2229-5518	International Journal
14.	Query Optimization in Encrypted Databases for Providing DaaS	The International Journal Of Science & Technoledge (ISSN 2321 – 919X), Vol. 2, Issue 4, 324-327 April 2014, ISSN:2229-5518	International Journal
15.	Private Content Based Multimedia Information Retrieval Using Map-Reduce	International Journal of Computer Science Engineering and Technology (IJCSET), Vol 4, Issue 4, 125-128, April 2014, ISSN:2231-0711	International Journal
16.	Exploring a Disconnected Synchronization Architecture between Android Client and Cloud	International Journal of Scientific Engineering and Technology Research (IJSETR), Vol 3, Issue 7, 956-959	International Journal

17.	Real Time Sentiment Analysis Of Twitter Data Using Hadoop	International Journal of Computer Science and Information Technologies, Vol. 5 (3), 2014, 3098 – 3100, ISSN: 0975-9646	International Journal
18.	Bluetooth Communication Using Hybrid Encryption Algorithm Based on AES and RSA	International Journal of Computer Applications (IJCA) 71(22):10-13, June 2013. Published by Foundation of Computer Science, New York, USA	International Journal
19.	Private Image Information Retrieval using Map/Reduce on Cloud	International Journal of Advances in Management, Technology & Engineering Sciences Vol. II, Issue 6 (VIII), March 2013, ISSN: 2249-7455.	International Journal
20.	Survey on Data Retrieval Techniques from The Public Databases	International Journal of Multidisciplinary Research Vol. I, Issue 12 (VI), March 2013, ISSN: 2277-9302.	International Journal
21.	Analyzing the Order Factor of Query Matrix in Private Information Retrieval Protocol for Outsourced Databases	International Journal of Networks and Communications 2012, 2(6): 138-141	International Journal
22.	Using Private Information Retrieval Protocol For An E-Commerce Application	ACM International Conference CUBE-2012 on “Information Technology” during 3-5 September, 2012 held at YASHADA, Pune	International Conference
23.	Optimized Private Information Retrieval Using Graphics Processing Unit and Cache Technology	ACM International Conference CUBE-2012 on “Information Technology” during 3-5 September, 2012 held at YASHADA, Pune <i>Scopus</i>	International Conference
24.	Analysis of Encryption Algorithms to Basic Operations on Outsourced B+ Trees for Data Privacy	IEEE, International Conference on Network and Computer Science (ICNCS 2011), April 8 - 10, 2011, Kanyakumari, India <i>Scopus</i>	International Conference
25.	Improving the performance of PIR Protocol in Outsourced Databases	IEEE, International Conference on Computer Technology and Development (ICCTD 2010), Nov 2-4, 2010 Cairo, Egypt <i>Scopus</i>	International Conference
26.	Analysis of Order of Matrices in Lattice based PIR Protocol	International Conference on Information Security and Privacy (ISP-10) July 12-14, 2010 Orlando, Florida, USA	International Conference
27.	Protocol for Misbehavior Detection in Social Network	International Conference on Advances in Computing (ICAC2008), Feb. 21- 22, 2008 at Anuradha Engineering College, Chikhli, Maharashtra	International Conference
28.	Data Compression approach for efficient bandwidth utilization, security to Light Weight Databases	International Conference on Global Trends in IT at Punjab College of Technical Education, Ludhiana (Punjab).2007	International Conference

29.	A Privacy Preserving Technique to Search Log Records	National Conference on Intelligent Networking & Virtual Organization, 15-17 th March,2012 at JSPM's COE, Hadapsar, Pune	National Conference
30.	Improved Security Authentication Protocol for GSM Security	National Conference(ETCS-2007), Sept. 22-23,2007 at Meerut Institute of Engineering & Technology, Meerut, (UP) India	National Conference
31.	Memory Encryption and Authentication	National Conference (ETCS-2007), Sept. 22-23, 2007 at Meerut Institute of Engineering & Technology, Meerut, (UP) India.	National Conference
32.	Pico Security: A Secured Approach for Pico DBMS	Emerging Technologies and Applications” (ETA-06) Oct. 1-2,2006 organized by Computer Science Department of Saurashtra University, Rajkot, (Gujrat).	National Conference
33.	Attribute Level Compression Support for Handheld DBMS	National Conference on “Emerging Technologies and Applications” (ETA-05) Oct. 1-2,2005 organized by Saurashtra University, Rajkot, (Gujrat).	National Conference

Member of Professional Bodies:

Sr. No.	Name of Professional Body	International/ National	Membership Details	Joining Year
01.	Institution of Engineering and Technology (IET)	International	1100315601	2013
02.	Institute of Electrical and Electronics Engineers IEEE	International	90828781, Annual	2010
03.	International Association of Computer Science and Information Technology (IACSIT)	International	80345173	2012
04.	International Association of Engineers (IAENG)	International	125322	2012
05.	Indian Society for Technical Education (ISTE)	National	LM 67554, Life Membership	2010
06.	Computer Society of India (CSI)	National	1096269, Life Membership	2011

Administrative Work Experience:

A. Outreach Activities:

- Worked on Directorate of Technical Education **Inspection Committee** to review the new Engineering/MBA/MCA Colleges.

- Worked as **Academic Expert** on **AICTE EOA scrutiny committee** for **WRO-AICTE**, Mumbai
- Worked as **Observer** for GMAT/GPAT examinations for **WRO-AICTE**, Mumbai
- Worked as DTE Observer for MHT-CET examination for DTE, Maharashtra
- Worked as **Technical Expert** for eTenders on Digital Valuation System, Finance Management System, University Information Management System at Dr. B. A. T. U., Lonere
- Delivered **Expert Lectures** in various Colleges/Universities on Information Security, Cyber Security, Project Based Learning
- Worked as **External Examiner** for Ph.D. thesis evaluation in various universities
- Worked as **External Examiner** for Ph.D. thesis defense examination (viva-voce) in various universities
- Working as Member of **Academic Standing Committee** at MIT Academy of Engineering, Alandi, Pune
- Working as **Board of Studies** Member at IT department, KITCOE, Kolhapur
- Worked as **Session Chair** for various National/International conferences
- Worked as **Reviewer** for various National/International conferences
- Worked as subject expert on **Selection Committee** at India Meteorological Department
- Worked as **Mentor** for designing Vision, Mission, Goals, POs at Computer Engineering, Information Technology departments of G.H. Rasoni College of Engineering and Management, Pune
- **Social Activities:**
 - a) Developed **Pune Police Website** with live map using Google Map APIs.
 - b) Actively participated in Cyber Safe Week Pune in 2010
 - c) **Conducted Java Course** for Students of reserved category under TDP-CDP cell of TEQIP, at COEP

B. Contribution to Education Innovation:

- Worked as **Referee/Expert** for **AVISHKAR** – A State level Research Project Competition at UG, PG, Ph.D and Teacher Category Competition for Savitribai Phule Pune University, Pune
- Delivered **expert lecture** on Information Technology for newly joined Police Sub-Inspectors (Motor Vehicle Department)
- Being Syllabus in charge of Computer Engineering and IT, Syllabus content of many new courses such as MOOC, Bioinformatics, Cyber Law are designed and included in the UG and PG Curriculum
- Designed the contents of many courses offered by various IT industries
- Organized Departmental Undergraduate Programme Committee and Departmental Postgraduate Programme Committee Meetings arranged for Curriculum Development.

- Taught Elective Course “Computational Biology” to Final Year B.Tech Students in Association with Persistent Systems Limited, Pune

C. Activities performed in COEP:

- Working as **CO-Chief Investigator** for Information Security Education and Awareness Project Phase-II. Funding of **1.5 Core** for the span of 5 years has been sanctioned by Department of Electronics and Information Technology, Govt. of India. Main objective of this project is to develop laboratory and skilled manpower in the domain of Information Security.
- Worked as **Principle Investigator** for a **Research Consultancy Project** on "Missing Weld Detection" Project. Funding of **Rs. 2.28 Lakhs** received from John Deere, Pune
- Worked on **Consultancy Project** on " Evaluation of DPR of E-Governance project for KMC, Kolhapur". Consultancy of **Rs. 3.363 Lakhs** received from KMC, Kolhapur.
- Worked as **PG NBA Coordinator** for M.Tech (Computer Engineering) in 2016, the programme is accredited for 5 years.
- Worked as **Center Coordinator** in Smart India Hackathon, **Software Edition- 2017, 2018, 2019 and Hardware Edition 2018** at **COEP Nodal Center** for AICTE-MHRD initiative
- Worked as Organizing **Co-Chair**, for ACM International Conference on "Software Engineering" held during 14-16 February, 2019 at COEP.
- Worked as **Sponsorship Chair** and **Track Chair** (Information Security track) for IEEE International Conference on Computing Analytics and Security Trends (CAST-2016)
- Worked in Institute’s Committee University Grant Commission (**UGC**), New Delhi and Related Work
- Worked as **Departmental Administrator** for College MIS. (7 Years)
- Worked as **Departmental Controller of Examinations** (5 Years)
- Working as **In-charge of Departmental UG and PG curriculum** development (5 Years)

D. Other Activities:

- Worked as **Core-Committee Member** for MindSpark a National Level Technical Event at COEP (4 years)
- Worked as **Core-Committee Member** in First Year, B.Tech. & M.Tech. **Admissions at COEP** (for more than 6 years)
- Working as **Faculty Advisor** for Swimming and Water Polo Game in College Gymkhana Managing Committee from 2009 (8 Years).
- Worked as **Faculty Advisor** to Google Student Club at COEP
- Number of **PG Students** Guided : 22
- Number of **UG Student** Guided: 90+

--Dr. Sunil B. Mane