



Sinhgad Technical Education Society's

Sinhgad College of Engineering
Vadgaon (Budruk) Off. Sinhgad Road, S.No. 44/1,



Mrs. Jyoti Bhagawantrao Kulkarni

B.E. (Comp. Sci. and Engg.), M. Tech. (Computer Engg.), Ph. D. (CSE)

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Significant Achievements

1. A patent has been granted by the Government of India for an invention entitled "A System for Automatic Detection of Quality of Filter of Air Purifier" for the term of 20 years from 08/04/2020 in accordance with the Provision of the patents Act, 1970.
2. A patent has been granted by the Government of India for an invention entitled "A Smart Innerwearable Device for Women or Child Safety with Automatic Location Tracking and Emergency Dialing Alert System" for the term of 20 years from 24/01/2020 in accordance with the provision of the patents Act, 1970.
3. Indian patent published in year 2019-2020 named "System and Method for Controlling Projection of Data Packets of a Remote Computing Device", Application No.: 202021015155 A.
4. Indian patent published in year 2019-2020 named "Concealed Waste Segregation System", Application No.: 202021005317 A.
5. Young Scientist and Best Paper Award Got Young Scientist and Best Paper Award in international conference - ICSCCN-2011 sponsored by IEEE and ISRO for "Database Processing by Linear Regression on GPU using CUDA", at Kanyakumari (Tamilnadu).
6. "Software-CIRCV HRV-Patients Disease Diagnosis", an appreciation Letter from Sinhgad Dental College, Pune for developing and deploying Software -CIRCV HRV-Patients Disease Diagnosis, along with TE students worth Rs. 50,000/-
7. "Depth Estimation of images from scene analysis" BCUD project funding of Rs. 80,000/- for year 2013-15.
8. Received best paper award along with final year students in International Conference on Pervasive Computing-2020 in Machine Learning track for the paper entitled "Privacy Policy Summarization and Detection of Unfair clauses" in February 2020.
9. Awarded with Elite and silver tag with 75% in "Python for Data Science", from NPTEL, IITM.
10. Awarded with silver tag with 92% in "Programming with C++", from NPTEL, IITM.
11. Worked as a faculty coordinator for "Google Cloud Facilitator program" along with Mr. Abhinav Katore, GoogleCloudFacilitator, Comp. Engg., SCOE, Pune
12. Got appreciation letter from Comp. Dept. for best students' feedback and result in a subject "Data Structures" for SE (Sem II) in 2011-12.

Academic Qualification

Degree	Institute Name	University Name	Year of Passing	Percentage	Grade	Qualification Status
B.E.(C.S.E)	Govt. College Of Engg., Aurangabad	B.A.M.U. university Aurangabad	1998	60.18%	First Class	Completed
M.Tech.(Comp. Engg)	College Of Engineering, Pune	Univrsiy of pune	2010	75.0%	8.43	Completed
Ph. D.(CSE)	K L University, Vijaywada. (A. P.)	Koneru Lakshmaiah University, Vijaywada	2021	-	Awarded	Completed

Subject Expertise

Subjects	No. Of Years	Remarks
Data Structures and Algorithms/Fundamentals of Data Structures	07	S. E. Computer Engineering
Object Oriented Programming Language	05	S. E. Computer Engineering
Advanced Data Structures	07	S. E. Computer Engineering
Soft Skills	03	S. E. Computer Engineering
Theory Of Computation	08	T. E. Computer Engineering
Systems Programming and Operating System	04	T. E. Computer Engineering
Data Science (Honour Corse)	01	T. E. Computer Engineering
Compiler Construction / Principles of Compiler Design / Principles of Modern Compiler Design	05	B. E. Computer Engineering
Compiler Construction/Principles of Compiler Design	05	B. E. Computer Engineering
Soft Computing and Optimization Algorithms	03	B. E. Computer Engineering

Conference Publication Details

Name	Venue	Date	Level	Category	Sponsored By
Sabbatical National Level Conference'11	Bharat Ratna Indira Gandhi College Of Engineering, Kegaon, Solapur	26 Mar 2011 to 26 Mar 2011	National	Research	Bharat Ratna Indira Gandhi College Of Engineering, Kegaon, Solapur
IICSCCN-2011 (International Conference on Signal Processing, Communication, Computing and Networking Technologies)	Department of Electronics and Telecommunication Engineering, Noorul Islam Centre for Higher Education, Thuckalay, Tamilnadu, India.	21 Jul 2011 to 22 Jul 2011	International	Research	IEEE and ISRO
International Conference on Computer Science and Engineering, ICCSE-2012	Pune	28 Jun 2012 to 28 Jun 2012	International	Research	Institute for Research and Development, India (IRD India)
International conference on computing, communication, control and automation	PCCOE, Pimpri Chinchwad	25 Feb 2015 to 26 Feb 2015	International	Research	CPS, IEEE, UoP, etc
Innovation 2k14	AYCOE, Sangamner	02 May 2014 to 02 May 2014	National	Research	SPPU, University Of Pune
Innovation 2k15	D Y Patil COE, Akurdi	06 Jul 2015 to 06 Jul 2015	National	Research	SPPU, University of Pune
International Conference on Pervasive Computing 2020	SCOE, Pune	13 Feb 2020 to 14 Feb, 2020	International	Research	SPPU, University of Pune

Research Projects

Project name	Description	Status	Amount in Rs.	Project type
Depth Estimation of Stereoscopic Images from a Scene on GPU using CUDA	BCUD funded project which is based on Image processing	100 (completed)	80,000	Sponsored Project

Depth Estimation in scene analysis	BCUD funded project which is based on Image processing	40	80,000	Sponsored Project
CIRCV-HRV	"Patients Details and diagnosis", delivered to Sinhgad Dental College.	Completed	50,000	Simulation Project

Research Paper publications in Journals

ISSN/ISBN No	Paper Title	Publish Date	Journal/Conference Name	Level	Paper Status	Authors
ISSN:2249- 7455	Image Transfer using Secrete Sharing Scheme	2012	International Journal of Advances in Management, Technology and Engineering Sciences	Refereed Journal	Published	Jyoti Kulkarni
ISBN:978-1-61284-652-1	Database Processing by Linear Regression on GPU using CUDA	2011	ICSSCN-2011	Conference – International level	Published	Jyoti Kulkarni
2278-0181	Anomaly Extraction Using Improved FP-Growth Algorithm Based on Compound Single Linked List	2014	International Journal of Engineering Research & Technology (IJERT)	Journal – International level	Published	Jyoti Kulkarni
2277-5420	Performance Improvement Using Contention Window Adaptation in IEEE 802.11 WLANs	2013	IJCSN International Journal of Computer Science and Network	Journal - International level	Published	Jyoti Kulkarni
2278-7420	IFRSA's International Journal Of Computing (Vol. 2, issue 3, July 2012 652)	2012	International journal of Computing	Journal – International level	Published	Jyoti Kulkarni
2319-6386	Enhancing the security in WSN using three tier Architecture	2014	International Journal of Innovative Research in Information Security	Journal - International level	Published	Jyoti Kulkarni
0975-8887	Inconsistency Extraction using Advanced FP- Growth Algorithm	2014	2014, 5	Journal - International level	Published	Jyoti Kulkarni
978-1-4799-6892-3	Generation of Depth Map based on Depth From Focus: a Survey	2015	IEEE explorer	Indexed Journal (Scopus)	Published (Scopus)	Jyoti Kulkarni
978-935-1-072-928	Prevention of Selective Jamming Attacks in Wireless Networks	2014	pg. no. 842 -850	Journal - International level	Published	Jyoti Kulkarni
2455-9954	Prevention of Selective Jamming Attacks in Wireless Networks	2016	IJETCS-2016	Journal - International level	Published	Jyoti Kulkarni
I978-023X	Depth Map Generation From Stereoscopic Images using Stereo Matching on GPU	2017	JARDCS	Journal - International level	Published (Scopus Indexed)	Jyoti Kulkarni
I978-023X	Comparative Analysis of Various Image Restoration Techniques by measuring Focus Parameter using DWT	2018	JARDCS	Journal - International level	Published (Scopus Indexed)	Jyoti Kulkarni

1816-949X	Depth Estimation from Defocused Images: A Survey	2019	JEAS	Journal - International level	Published (Scopus Indexed)	Jyoti Kulkarni
2278-0181	Traffic Control System and Technology: A survey	Jan 2020	IJERT	International Journal Of Engg. Research and Technology	Published	Jyoti Kulkarni
2349-5162	Smart Security System for Buildings Using Vehicle License Plate Recognition and Biometrics	June 2019	IJETIR	Journal of Emerging Technology and Innovative Research, Vol 6, Issue 6, June 2019	Published	Jyoti Kulkarni
2608-2612	Depth Analysis of Single View Image objects based on object Detection and Focus Measure	Nov 2019	IJATCSE	International Journal Of Advanced Trends in Computer Science and Engg	Published (Scopus Indexed)	Jyoti Kulkarni
2608-2612	Image Focus Measure by Wavelet Transform with Gaussian Derivative and Spatial Frequency and Image Enhancement using Fuzzy Logic	Oct 2020	IJATCSE	International Journal Of Advanced Trends in Computer Science and Engg	Published (Scopus Indexed)	Jyoti Kulkarni
2321-0613	Semantic Analysis and Evaluation Of Subjective Passage	2019	IJSRED	International Journal Of Scientific Research and Engg. Development	Published	Jyoti Kulkarni

Contribution as a resource person

1.	Contributed in Syllabus for Theory Of Computation in TE 2015 syllabus designing.
2.	Contributed as an expert in Syllabus for Software modelling and Architecture in TE 2019 syllabus setting.
3.	Invited on panel of paper setting for the subject "System Programming (BTECHS501/603)" of BTECH Computer Engineering SEM-V at Vishwkarma University, Pune.
4.	Reviewer in International conference conducted at PICT in 2017.
5.	Speech on mathematical model and feasibility analysis to BE project groups in 2020-21 year.
6.	Resource person for 1-Day FDP on "System programming and operating system" organized by SKNCOE in Association with BoS, Comp. Engg., SPPU, Pune during 12th December 2017.

Membership Details

Membership Body	Details	Duration	Level
IAENG	Membership no. 157573	20 Jul 2015 to	International
IAENG	lifetime membership	20 Jul 2015 to	International

Post Held

Organization Name	Post	Organization Category	Appointment Status	Duration
Sinhgad College Of Engineering, Pune	Assistant Professor	Private Organization	Full Time	Jul 05, 2008 till date.
AISSMS College Of Engineering, Pune	Lecturer	Private Organization	Full Time	Jul 15,2005 to Jan 04, 2008
MGM's COE, Nanded	Lecturer	Private Organization	Adhoc	Aug 08,2000 to Jun 30, 2003
MBES TBG Polytechnic, Ambajogai	Lecturer	Private Organization	Adhoc	Sep 21,1998 to Jun 30,1999

Self-Contribution

Institutional Development Contribution(2014-2020)

Date	Venue	Contribution	Category
24, Feb 2015	SCOE, Pune	collection and editing required information from all departments and organizes the same req. format	central coordination committee for the preparation of all types institute level reports of SCOE
20, May 2015	SCOE, Pune	Single Point Of Contact	Single Point Of Contact for MoU signed between PSL and SCOE
07, Feb 2015	SCOE, Pune	committee member	Committee member of Neon 2015 prize distribution committee
January 2020	SCOE, Pune	Worked as a central Event coordinator for Techtonic 2k20	Event Coordinator
February 2020	SCOE, Pune	Worked as a coordinator for a track machine learning and AI for International Conference ICPC 2020	Track coordinator

Academic Development Contribution(2014-2021)

Date	Venue	Contribution	Category
15, Jun 2014- 31, May 2015	Comp. Dept., SCOE, Pune	timetable committee member	timetable preparation for 2014-15 academic year
2015-16	Comp. Dept., SCOE, Pune	timetable committee member	timetable preparation for 2015-16 academic year
2017-18	Comp. Dept., SCOE, Pune	AMC SE Coordinator	SE monthly attendance monitoring and evaluation, SE students' parents meet coordinator, Term work compilation
2018-19	Comp. Dept., SCOE, Pune	AMC TE Coordinator	TE monthly attendance monitoring and evaluation, Term work compilation
2018-19	Comp. Dept., SCOE, Pune	Departmental Internship coordinator	Internship data collection and analysis, providing internship details to students and guiding them to select the company.
2019-20	Comp. Dept., SCOE, Pune	AMC BE Coordinator	BE monthly attendance monitoring and evaluation, Term work compilation
2019-20	Comp. Dept., SCOE, Pune	Departmental Internship coordinator	Internship data collection and analysis, providing internship details to students and guiding them to select the company.
2020-21	Comp. Dept., SCOE, Pune	AMC SE Coordinator	SE monthly attendance monitoring and evaluation, Term work compilation
2020-21	Comp. Dept., SCOE, Pune	Departmental Internship coordinator	Internship data collection and analysis, providing internship details to TE, SE and BE students and guiding them to select the company.

Student Development Contribution(2014-2021)

Date	Venue	Contribution	Category
26, Jun 2014 - 20, Apr 2015	Comp. Dept., SCOE, Pune	counseling the students	worked as a class teacher for TE (Div .1)
15, Jun 2014- 15, May 2015	SCOE, Comp. Dept.	guided BE as well as ME projects	Project guidance
2015-16	SCOE, Comp. Dept	guided BE as well as ME projects	Project guidance
2016-17	SCOE, Comp. Dept	guided BE as well as ME projects	Project guidance
2017-18	SCOE, Comp. Dept	guided BE projects	Project guidance
2017-18	SCOE, Comp. Dept	counseling the students as a TG, class teacher and SE coordinator	SE coordinator

2018-19	SCOE, Comp. Dept	counseling the students as a TG, class teacher and TE coordinator	TE coordinator
2019-20	SCOE, Comp. Dept	counseling the students as a TG, class teacher and BE coordinator	BE coordinator
2019-20	SCOE, Comp. Dept	Worked as a mentor for two BE students groups in Avishkar Competition upto second level	two BE students groups selected and presented their idea in Avishkar Competition upto second level
2019-20	SCOE, Comp. Dept	Guided 2 BE projects and 1 group received best paper presentation award in international Conference ICPC 2020 in Feb 2020.	Received best paper award.
2020-21	SCOE, Comp. Dept	counseling the students as a TG, class teacher and SE coordinator	SE coordinator

Institutional Development Contribution(2015-2016)

Date	Venue	Contribution	Category
02, Jul 2015 - 02, Jul 2016	SCOE, Pune	worked as SPOC for SCOE and PSL for Centre of Excellence.	single point Of contact

Student Development Contribution(2015-2016)

Date	Venue	Contribution	Category
15, Dec - 10, Apr	SCOE, Comp. Engg. Dept, Pune	delivered listening skills session under STP-2 for SE students	STP 2
15, Jun - 15, May	SCOE, Comp. Dept, Pune	guided BE and ME projects	Guide

Self-Growth(2015-2021)

Date	Venue	Contribution	Category
15, Jun - 16, Jun	SCOE	Got an opportunity to work for SCOE students to expose themselves for various events of PSL like BE project, industrial visits, various workshops, etc.	Single Point Of Contact for MoU signed between PSL and SCOE
15, Jun - 15, Jun	PSL, Pune	Worked as a mentor for TE comp students to participate in Pune Digital Hackathon 2015 at PSL. The students got consolation prize.	MENTOR
2015-16	Sinhgad College of Engineering, Vadgaon	2 weeks AICTE approved SDP on "Soft Computing"	Attendee
2017-18	Sinhgad College of Engineering, Vadgaon	2 weeks STTP on "Data Mining : Research Avenues and Tools"	Attendee
2019-20	National Institute of Technical Teacher's Training and Research, Kolkatta	Short Term Training Programme through ICT Mode on "Outcome Based Accreditation and NBA"	Attendee

2019-20	Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India.	R Programming on 5 days FDP	Attendee
2019-20	Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India.	5 days FDP on Moodle	Attendee
2019-20	Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India.	5 days FDP on Scilab	Attendee
2019-20	Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India.	Five Day Faculty Development Programme on "Python"	Attendee
2019-20	IIT, Kharagpur	Nptel online certification on "Programming in C++", scored 91%	Participant
2020-21	AICTE Training And Learning (ATAL) Academy Online 1 week FDP organized by Meerut Institute of Engineering and Technology	Online FDP on "Data Sciences", score 75%	Participant
2020-21	AICTE Training And Learning (ATAL) Academy Online 1 week FDP Organized by PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY.	"Artificial Intelligence"	Participant
2020-21	1 week national level FDP organized by SITS, Narhe.	"Python with Data Structures for Databases, GUI Designing and Web development"	Participant
2020-21	FDP on "Applied Natural Language Processing"	AICTE FDP organized by LNCTE, Bhopal	Participant
2020-21	FDP training on "Project Based Learning-II"	SIT, Lonavla	Participant
2020-21	SE syllabus FDP on "Data Structures Laboratory"	SPPU, Pune	Participant
2020-21	Application of Artificial Intellegence in Bioinformatics and Biomedical	Karnataka State Akkamahadevi University, Vijayapura, dept. of Bioinformatics, Under DST, delhi	Participant
2020-21	National Education Policy 2020:Perspective	TEQIP-III (NPIU-MHRD, Govt. Of India)	Participant
2020-21	Two-week FDP on "Artificial Intelligence and Ambient Intelligence"		Participant
2020-21	"Internet of Things"	AICTE sponsored (ISTE/AICTE) sponsored Refresher Program	Participant
2020-21	"Predictive Analytics using Artificial Intellegence"	AICTE sponsored STTP PAUAI	Participant
2020-21	"Recent Trends in Embedded Systems"	(ISTE/AICTE) sponsored Refresher Program	Participant
2020-21	Outcome Based Education and NBA accreditation	AICTE sponsored -Organized by Sagi Rama Krishnam Raju Engg. College	Participant

2020-21	System Design Methodologies for Embedded, IoT, AI and HPC using Intel FPGA	Electronics and ICT Academy, supported by Electronics and IT, Govt. Of India, IIT, Guwahati, Digital India	Participant
2020-21	Applied Machine Learning and Data Science	AICTE sponsored (ATAL FDP) and Organized by Engg. College, Dharwad	Participant
2020-21	Enabling Technologies towards 6G	SKNCOE, Pune	Participant
2020-21	Artificial Intellegence and Machine Learning	Textile and Engineering Institute, Ichalkaranji	Participant
2020-21	Fuzzy and Rough Set Theory	NITTTR, Kolkatta	Participant
2020-21	Online National Symposium on "National Education Policy (NEP)-2020	PCCOE, Pune	Participant
2020-21	Lean-Start up and minimum viable product /business	Noida institute of engineers.	Participant
2021-22	AICTE sponsored "Blockchain research and its applications in innovation and entrepreneurship"	Bharat institute of engg and technology, Hyderabad	Participant
2021-22	STTP on Advanced applications in AI and ML	Marathwada Mitramanda COE, Pune	Participant
2021-22	Successfully completed 10 hrs training program on "Robotic Process Automation using Uiopath"	India Startup and GLOSAP	Participant

Interaction with Outside world

Sr. No.	Role	Particulars	Venue	Programme Date	Academic Year
1	Attendee	FDP on Software Engineering	Persistent Systems Ltd. Pune	22 Dec to 28 th Dec, 2007	2007-08
2	Expert lecturer	Training lectures delivered for TE (E&TC, Comp, IT, Chemical) students for a subject "Problem Solving Techniques" in Infosys Campus Connect foundation Program (3.0)	SCOE, Comp. Dept.	29 th Jan to 13 th April, 2011	2010-11
3	Expert lecturer	Training lectures delivered for TE (E&TC, Comp, IT, Chemical) students for a subject "Problem Solving Techniques" in Infosys Campus Connect foundation Program (3.1)	SCOE, Comp. Dept.	21 st Feb to 16 th April, 2012	2011-12
4	Single Point Of Contact	SCOE and PSL signed MoU	SCOE	1 st July, 2015	2015-16, 2016-17, 2017-18
5	Single Point Of Contact	FDP on Basic Java for faculties. Prof. M. D. Sale attended the same.	Persistent Systems Limited, 9A/12 Pingala Aryabhata Persistent Tower, Near Padale Palace opposite Sharda Centre, Off Karve Road, Erandwane, Pune –	17 th to 20 th Aug, 2015	2015-16
6	Single Point Of Contact	Training on Machine Learning for TE students. 4 students of Comp and 2 students of IT attended.	Persistent Systems Limited, 9A/12 Pingala Aryabhata Persistent Tower, Near Padale Palace	27 th Aug to 21 st Sept, 2015	2015-16

			opposite Sharda Centre, Off Karve Road, Erandwane, Pune		
7	Single Point Of Contact	Final year projects sponsored by PSL (6-comp and 2- IT groups)	Persistent Systems Limited, 9A/12 Pingala Aryabhata Persistent Tower, Near Padale Palace opposite Sharda Centre, Off Karve Road, Erandwane, Pune	One year	2015-16
8	Internal mentor	One Final year (Computer) Project sponsored by PSL	Persistent Systems Limited, 9A/12 Pingala Aryabhata Persistent Tower, Near Padale Palace opposite Sharda Centre, Off Karve Road, Erandwane, Pune	One year	2015-16
9	Internal mentor	Pune Digital Hackathon 2k15	Persistent Systems Limited, 9A/12 Pingala Aryabhata Persistent Tower, Near Padale Palace opposite Sharda Centre, Off Karve Road, Erandwane, Pune	10 th Oct and 11 th Oct, 2015 (2 days)	2015-16
10	Winter School for TE students	programming centric integration of various foundational aspects of computing	Persistent Systems, Plot 39, Phase 1, Rajiv Gandhi Infotech Park, Hinjawadi, Pune 411057.	1 st Dec to 15 th Dec, 2015	2015-16
11	Innovation 2k14	-University level Conference for BCUD, SPPU funded projects. - Jyoti Bhagawantrao Kulkarni as a Principal Investigator - Prof. P. M. Kanjalkar (VIT, Pune as a Co-Principal Investigator	BCUD, SPPU	2 nd May 2014	2013-14
12	Innovation 2k15	-University level Conference for BCUD, SPPU funded projects. - Jyoti Bhagawantrao Kulkarni as a Principal Investigator - Prof. P. M. Kanjalkar (VIT, Pune as a Co-Principal Investigator	BCUD, SPPU	6 th July, 2015.	2014-15
13	"ICCUBEA 2015"-IEEE conference	Paper presented titled "Generation of Depth Map based on Depth from Focus- a Survey" with Co-author Dr. C. M. Sheelarani-K L University, Vijaywada	PCCOE, Pimpri	27 th Feb, 2015	2014-15

Declaration

I hereby declare that all the above information furnished by me are true to the best of my knowledge.