

## Profile of Dr. Bharat Bhushan Sagar



### **Dr. Bharat Bhushan Sagar** **Associate Professor (MCA)**

Department of Computer Science and Engineering,  
School of Engineering,  
Harcourt Butler Technical University,  
Kanpur – 208002, U.P., India

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[bbsagar@hbtu.ac.in](mailto:bbsagar@hbtu.ac.in) , [drbbsagar@gmail.com](mailto:drbbsagar@gmail.com)

### Work Experience:

- ⊙ Worked as an Assistant Professor in the department of **Computer Science and Engineering, Birla Institute of Technology, Mesra Ranchi** posted at NOIDA Campus (*from December 2012 to October 2023*)
- ⊙ Worked as an Associate Professor in department of **Information Technology, Ajay Kumar Garg Engineering College, Ghaziabad.** (*from March 2011 to December 2012*)
- ⊙ Worked as a Lecturer in the department of **MCA, Dr. K. N. Modi Institute of Engineering & Technology, Modinagar, Ghaziabad.** (*from December 2004 to July 2007*)

### Educational Qualifications:

S. No	Qualification	University/ Board	Year
1	<b>Ph. D.</b> (Software Engineering)	SHIATS, Allahabad in collaboration with <b>IIT BHU</b>	2011

2	<b>MCA</b>	UPTU (Now known as AKTU) Lucknow	2004
3	<b>PGDM-IRPM</b>	Board of Technical Education, Lucknow	2001
4	<b>B.Sc. (PCM)</b>	Ch. Charan Singh University, Meerut	2000

### Area of Interest

- ✓ Software Engineering
- ✓ Operating System
- ✓ Machine Learning
- ✓ Computer Organization
- ✓ Computer Network

### Research Supervision

▪ **Ph.D:** Awarded **07**, Ongoing **03**

S. No.	Name & Roll Number	Sole Supervisor/ Joint Supervisor	Title of PhD Thesis	University Name	Status
1	Shanthi Makka (PHD /CS/10009/2013)	<b>Sole Supervisor</b>	A New advanced Refactoring Approach for Parallelism using Heterogenous Parallel Architecture	BIT Mesra Ranchi	<b>Awarded (16-01-2019)</b>
2	Pankaj Gupta (PHD /CS/140/2009)	<b>Sole Supervisor</b>	Temporal Data Mining	BIT Mesra Ranchi	<b>Awarded (19-02-2019)</b>
3	Satvik Vats (PHD /CS/10057/2016)	<b>Sole Supervisor</b>	Designing a platform independent model for Big Data Analytics	BIT Mesra Ranchi	<b>Awarded (13-08-2021)</b>
5	Shailee Lohmor (Ph.D-CB-DEC2012-1000)	<b>Sole Supervisor</b>	Enhancing Prediction and Parameter Estimation of Software Reliability using Hybrid Models Based on Nature Inspired Algorithm	Bharthiar University Coimbatore,	<b>Awarded (12-09-2021)</b>
6	Rajbal Simon (Enrolment No:A11053615013)	Joint Supervisor	Measuring Agile Testing Efficiency Using Two Way Assessment Techniques	Amity University, Noida.	<b>Awarded (20-07-2021)</b>
7	Sampath S. (SUV11020080)	Joint Supervisor	Development and Analysis of MPI and PVM for High Speed Computation using Cluster Based Architecture	Shri Venkateshwara University, Gajrola, Uttar Pradesh	<b>Awarded (25-01-2016)</b>
4	Sandeep Kaur/	<b>Sole Supervisor</b>	Character Recognition System	BIT Mesra	<b>Awarded</b>

	(PHD /CS/10003/2017)		for Brahmī Script Using Machine Learning Techniques	Ranchi	(06-09-2023)
8	Vikas (PHD /CS/10058/19)	Joint Supervisor	Anomaly Detection in Wireless Sensor Networks for Cyber Security	BIT Mesra Ranchi	Ongoing
9	Sanjay Kr. Sonker (PHD/CS/10054/20)	Joint Supervisor	Fog-based IoT-enabled System Security using with Machine learning	BIT Mesra Ranchi	Ongoing
10.	Soma Sircar Dasgupta (PHD/CS/10066/2020)	Joint Supervisor	Development of a Blockchain Based Model for Piracy Prevention	BIT Mesra Ranchi	Ongoing

- **M.Tech:** Completed 02
- **MCA & B. Tech. Projects:** Completed 20+

## Patent

1. ***"IMT-Voice Based Mobile Banking: INTELLIGENTMONEY TRANSFER USING VOICE BASED MOBILE BANKING"***, Jain Arpit; Singh Karan; Dwivedi, Rakesh Kumar; **Sagar, Bharat Bhushan**; Vats, Satvik; Banda, Latha; Manjul, Manisha; Khan, Tayyab and Sarkar, Biplab Kumar, **Granted** on 21-10-2020 by IP-Australia, Australian Government.
2. ***"A Multi node System and a Method for Big Data Analytics"***, Dr. Satvik Vats, Dr. Vikrant Sharma, **Dr. Bharat Bhushan Sagar**, Ms. Priya Singh, **Granted** on 26-10-2023 by the patent office Government of India. (Patent No. : 462171)
3. ***"Multi Disease Classifier and Localizer for Chest X-Ray"***, Dr. Satvik Vats, Dr. Vikrant Sharma, Dr. Devesh Pratap Singh, Sunny Singh, Dr. Karan Singh, **Dr. Bharat Bhushan Sagar**, Amit Gupta, Navin Garg, Published on 04/02/2022 by Office Journal of the Patent Office, INDIA (Application Number: 202211004393 A)

## Publications details

### **BOOK CHAPTERS**

- [1] Makka, S., Arora, G., & **Sagar, B. B.** (2020); Consequent Formation in Security With Blockchain in Digital Transformation, In S. Goundar, B. Bhushan, & V. Thakare (Eds.), Impact of Digital Transformation on Security Policies and Standards (pp. 122-144). Hershey, PA: IGI Global. doi:10.4018/978-1-7998-2367-4.ch008
- [2] Satvik Vats and **B B Sagar** (2019); Data Lake: A Plausible Big Data Science for Business Intelligence, in Proceedings (eds by B.M.K. Prasad, Karan Singh, Shyam S. Pandey & Richard O'Kennedy) 2nd International Conference on Communication and Computing

- Systems (ICCCS-2018), December 1-2, 2018, Gurgaon, India: **CRC Press (Taylor & Francis) pp.442-448. (ISBN: 978-0-429-44427-2).**
- [3] Gupta P., **Sagar B. B.**(2019); Decision Support System for Business intelligence using Data Mining Techniques: A case Study, *Advances in Computational Intelligence, Advances in Intelligent Systems and Computing*, Vol 988, pp. 81-94, July 11, 2019, **Springer, Singapore. (ISBN: 978-981-13-8222-2).**
- [4] Makka S., **Sagar B.B.** (2016); Simulation of a Model for Refactoring Approach for Parallelism Using Parallel Computing Tool Box. In: Satapathy S., Das S.(eds) *Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems: Volume 2. Smart Innovation, Systems and Technologies*, pp 77-84, vol 51. **Springer, Cham**, First Online: 04 May 2016. *(ISBN: 978-3-319-30936-2).*

### **Best 5 Research Paper in INTERNATIONAL JOURNALS**

- [1.] Sandeep Kaur and Bharat Bhushan Sagar (2022), "Efficient Scalable Template-Matching Technique for Ancient Brahmi Script Image", *Computers, Materials & Continua*, Tech Science Press, Vol. 74, Issue 1, pp. 1541-1559, 2022. **[SCIE, IF : 3.86]**  
DOI: 10.32604/cmc.2023.032857
- [2.] Satvik Vats and B. B. Sagar (2020), "An Independent Time Optimized Hybrid Infrastructure for Big Data Analytics", published in *Modern Physics Letters B*, World Scientific. 2020. pp. 2050311 (24 pages), doi.org/10.1142/S021798492050311X. **[SCIE, IF : 1.9]**
- [3.] Vats, Satvik; Sagar, Bharat B.; Singh, Karan; Ahmadian, Ali; Pansera, Bruno A. (2020) "Performance Evaluation of an Independent Time Optimized Infrastructure for Big Data Analytics that Maintains Symmetry", *Symmetry*, Vol-12, Issue-8, pp. 1274 (15) August-2020. **[SCIE, IF: 2.7]**
- [4.] **Sagar, B.B.**; Saket, R.K.; and Singh, Gurmit (2016); *Exponentiated Weibull Distribution approach based Inflection S-shaped software reliability growth model*, *Ain Shams Engineering Journal*, **Elsevier (Science Direct)** Vol.-7, Issue-3, 2016, pp. 973–991. <http://dx.doi.org/10.1016/j.asej.2015.05.009>. **[SCIE, IF: 4.79]**
- [5.] Sandeep Kaur, **B. B. Sagar** (2019), Brahmi character recognition based on SVM (support vector machine) classifier using image gradient features, *Journal of Discrete Mathematical*

### **Best 5 INTERNATIONAL CONFERENCE**

- [1] Satvik Vats and B. B. Sagar, "**Data Lake: A Plausible Big Data Science For Business Intelligence**," in Communication and Computing Systems: Proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018), December 1-2, 2018, Gurgaon, India, 2019: **CRC Press (Taylor & Francis)**., pp. 442.(**Scopus Indexed**).
- [2] Rajbala, **Dr. B. B. Sagar**, Dr. Deepak Gupta, "Measuring Agile Testing Efficiency using Two Way Assessment Techniques: Current Status and Future Scope", 7th International Conference on Quality, Reliability, Info-com Technology and Business Operations (ICQRITBO'2015), Organized by Department of Operation Research, University of Delhi, Delhi on 28th – 30th December 2015, Proceedings Published by **Springer**. (**Scopus Indexed**)
- [3] Sampath.S, **Bharat BhushanSagar** ,C.K.Subbaraya,Nanjesh B R, "Performance Evaluation of Parallel Applications using MPI in Cluster Based Parallel Computing Architecture"accepted for International Conference on 'Emerging Research in Computing, Information, Communication and Applications'(ERCICA-2013), ISBN No.: 9789351071020, Pp. 104-110, held on 2nd and 3rd August 2013 at Bangalore. (**Paper is also available on Elsevier Proceedings**)
- [4] **Dr. Bharat Bhushan Sagar**, Sampath S, Nanjesh B R, and Dr. C.K. Subbaraya "Development of Common Parallel Programming Platform for MPI and PVM", 5th International conference on advances in Communication, Network and Computing, CNC-2014, to be held on Feb 21-22, 2014, Chennai, India. (**Paper is also available on Elsevier Proceedings**)
- [5] Sampath S, Nanjesh B R, **Bharat Bhushan Sagar** , "Performance Optimization of PVM based Parallel Applications using Optimal Number of Slaves" International Conference on Reliability, Optimization and Information Technology (ICROIT-2014)" to be held on Feb 6-8, 2014, India. (**Available on IEEE explore**).

## Professional Societies:

- ✓ Member **ACM**, New York, USA
- ✓ Fellow **IETE** New Delhi, India
- ✓ Life Member, **IEANG**, Hong Kong
- ✓ Life Member, **GIST, Vijnana Bharti**, India

## Other Research Activities:

- ✓ Organized 2<sup>nd</sup> **Research Scholar's Day** on 19-05-2023, Dr. V. Ravi Kumar , (Head R&D Bharat Petrolam, India) was the Chief Guest and Prof. Ramesh C. Bansal(Professor , University of Sharjah, UAE) was the Guest of Honor activity was sponsored by BPCL.
- ✓ Convener, International Conference on Innovation in Engineering & Management (**ICIEM'23**), Sustainability through Creativity and Innovation, an interdisciplinary conference with the theme of G20, organized on **1-2 June, 2023**.
- ✓ Organized 1<sup>st</sup> **Research Scholar's Day** on 20-05-2022, Prof. D. P. Kothari was the Chief Guest and the activity was funded by Dainik Bhaskar Group.
- ✓ Recipient of "**Young Scientist Award**" at Alborg University, Denmark (Europe), 2016
- ✓ Recipient of "**Young Scientist Award**" at Jawaharlal Lal Nehru University, New Delhi, India-2019
- ✓ **Reviewer**, International Journal of **Quality and Reliability Management**, (**U.K.**)
- ✓ **Reviewer**, International Journal of Computer Aided Engineering and Technology, Inderscience Publishers (**USA**)
- ✓ **Reviewer**, IEEE Access (**USA**)
- ✓ **Program Co-Chair**, 2nd International Conference on Sustainable Computing Techniques in Engineering, Science and Management (**SCSEM-2017**), Belagavi (Near Goa), India
- ✓ Chaired Session in IEEE International Conference **CICN-2014**, Udaipur (Rajasthan)
- ✓ Chaired Session in IEEE International Conference **INDIACOM-2015**, at Bharti Vidyapeeth, New Delhi.
- ✓ Chaired Session in IEEE International Conference on Computational Intelligence & Communication Technology (**CICT-2015**), at ABES Engg. College, Ghaziabad, (U.P), India.
- ✓ Chaired Session in IEEE International Conference **CICN-2014**, Udaipur (Rajasthan)
- ✓ Chaired Session in National **DRDO** sponsored National Conference at SRM Modinagar

## Extra Curricular Activities:

- ✓ Participated in (**One Week**) Short Term Training Program on "HPC in AI (HPC-AI-23) Sponsored by Miet, IEEE on 07-11 August, 2023, Organized by Delhi Technological University, Delhi.
- ✓ Participated in (**One Week**) National Workshop on "High Performance Computing (HPC-2016)" Sponsored by TEQIP-II on May 02-06, 2016 Organized by Birla Institute of Technology, Mesra, Ranchi at BIT Mesra Ranch Main Campus.
- ✓ Participated in (**One Week**) Short term course on "Recent Trends in Network Security" Conducted by Department of CSE, IIT Roorkee on Feb 01-05, 2016 at IIT Roorkee.
- ✓ Participated in (**One Week**) Short term course on "Technical Teacher's Role, Self-Esteem, Motivation and Professionalism Development through ICT" Conducted by NITTTR-Chandigarh on June 08-12, 2015 Organized by JSS Academy of Technical Education Noida(U.P.)
- ✓ Participated in (**One Week**) Short term course on "Cyber Crime and Forensic Tools through ICT" Conducted by NITTTR-Chandigarh on Dec 01-05, 2014 Organized by Ajay Kumar Garg Engineering College, Ghaziabad (U.P.).
- ✓ Participated in Short term course on "Reliability and Availability Quantification" Conducted by IIT Gandhi Nagar on Jan 20-22, 2014 at IIT Gandhi Nagar (Gujrat).
- ✓ Participated in(**One week**) **FDP** on Research Issues and Simulation Tools in Wireless Technologies" conducted by Department of CSE, BIT Mesra Ranchi Noida Campus on Sep 23-27, 2013 at BIT Noida Campus.
- ✓ Participated in(**Two week**) **FDP** on "Human Values and Professional Ethics" Organized by IIT Kanpur and GBTU Lucknow on July 09-16, 2012 at IIT Kanpur (U.P.)
- ✓ Worked as a **Coordinator**, Alumni Association in Dr. KNMIET, Modinagar.
- ✓ Participated in and get certificate in **Faculty Development Programme**, which is conducted by highly experienced professor's team of **IIT, Roorkee**.
- ✓ **Gold Medalist in N.S.S. (National Social Service Scheme)** Under C.C.S. University.
- ✓ Develop a **Student Information Record** for all student of Dr. KNMIET.
- ✓ Participate in many IT Quizzes at inter / intra Institute level.
- ✓ **EDITOR** , *INFOBYTES Journal of Information Technology*, Published by Ajay Kumar Garg Engineering College, Ghaziabad (U.P.) India.

## Personal Profile:

Father's name : (Late) Sh. G. C. Sagar  
Sex : Male  
Nationality : Indian  
Marital Status : Married  
Hobbies : Interacting with people, Reading Book.  
Language Known : English, Hindi

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Date: 25-10-2023

Place: Kanpur

**(Dr. Bharat Bhushan Sagar)**