



Resume

Dr. Vipul V. Bag

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Old Pune Naka,
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Solapur (Maharashtra State)
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Educational Qualification

Exam	Institute / University	Year of Passing	Percentage Marks	Grade
S.S.C.	S.S.H. School, Akalkot	1991	81	Distinction
H.S.C.	D.A.V. College, Solapur	1993	77	Distinction
B. E. (C. S. E.)	Walchand Institute of Technology, Solapur	1997	68	Distinction
Diploma in Advanced Computing, CDAC, Pune	C-DAC, Pune	1999	70	B
M. Tech. (Computer)	Dr. B.A.T.U. Lonere.	2004	65	Distinction
Ph.D in Computer Science and Engineering	Shri Guru Govind Singhji Institute of Engg & Tech, Nanded affiliated to SRTMNU, Nanded	2017		

Ph.D Thesis Title Design and Development of Context based Stock Recommendation System

Experience

Sr. No.	Organization	Designation	Duration
1.	Pragati Computers, Pune.	Lecturer	1/08/1997 to 05/06/1998
2.	R.S. College of Engineering, Chiplun.	Lecturer	02/08/1999 to 30/06/2000
3.	SVERI's, College of Engineering, Pandharpur.	Lecturer	01/07/2000 to 28/04/2004
4.	SVERI's, College of Engineering, Pandharpur.	Assistant Professor	01/08/2004 to 31/05/2008
5.	PNES Pune's, N. K. Orchid College of Engg. & Tech., Solapur	Assistant Professor	01/06/2008
6.	PNES Pune's, N. K. Orchid College of Engg. & Tech., Solapur	Associate Professor	01/07/2010 to 30/06/2018
7.	PNES Pune's, N. K. Orchid College of Engg. & Tech., Solapur	Professor	1/07/2018 till date

- Worked as **Dean Admin** from June 2017 to June 2023
- Working as **Head of Computer Science and Engg Dept.** from last 10 years.
- Worked as Head of Department of Computer Science and Engineering, SVERI's, College of Engineering, Pandharpur for four years
- Worked as NAAC Criteria coordinator
- Worked as Online examination coordinator for GATE, CET, NTA etc.
- Worked as Sr. Supervisor for University examination.
- Worked as ERP coordinator, Online Admission coordinator, Coordinator for DBATU University Sub Center, CAP Director etc.

Subjects Taught

Data Structures, C Programming, Machine Learning, Data Mining, Computer Networks, Internet Technology, Visual Basic, Information Retrieval, Mobile Computing

Awards

- Received **Award of Excellence** for the Best Teaching Faculty of Computer Science and Engineering department of N.K. Orchid College of engineering & Technology, Solapur.
- Awarded as **Best Research Paper** of Data Mining track in The International Conference of Internet of Things, Next Generation Networks and Cloud Computing, (ICINC2016), Pune, Feb 26 to 28, 2016 for the paper entitled "Stock Price Trend Prediction and Recommendation"

Funding Proposal

Funding proposal submitted for DST IPCS division of Rs. Nine lakhs entitled “**Design & Development of Fertilizer Recommendation Engine based on Soil Test Results**”

Research Projects Undertaken

- **A Virtual Reality Construction Kit** – This project was done as part of BE (C.S.E.) final project. This project contains hardware and software part. In software part we have built up virtual world of our college through the C++ library.
- **House Building Advances** Project as a part of C-Dac's diploma. This was a project done for Govt. of Maharashtra for P.W.D. The software used was PowerBuilder and SQL server.
- **Use of Directory Access Protocol to Create and Maintain Information on Directory Server** –This project is implemented as part of M-tech thesis. A server and client side program is written for creating and maintaining information on the directory server.
- **Design and development of context based stock recommendation system** which is title of Ph.D research work undertaken. A Novel algorithm for prediction of stock prices is developed based on Data Mining concepts and traders are recommended the stock for various signals like BUY, HOLD, SELL.
- Guided and successfully completed Twenty PG research projects and two are in progress.
- Guided and successfully completed Thirty Five UG research projects. Out which two sponsored by **Persistent Systems Ltd, Pune**, One project sponsored by **Krishi Vidgan Kendra, Solapur**, one sponsored by **Dr. Sandip Bhagawat, Niramay Rehab, Solapur** and one more project sponsored by **Awatade Construction, Solapur**

Patent Published

- Published Indian Patent on “**AI based Crop Prediction and Monitoring**” which is under examination stage.
- An Indian patent is published on “**Design of an ROV to find dead bodies underwater**” which is under examination stage.

Paper Publications

Google Scholar Link <https://scholar.google.com/citations?user=Ubj40N8AAAAJ&hl=en>

ResearchGate Link <https://www.researchgate.net/profile/Vipul-Bag>

1. Received an acceptance for Article “**FarmAI: AI-Driven Chatbot for Comprehensive Agricultural Assistance**” in **Scopus indexed** Journal International Journal of Computing Vol 22 issue 03,2023 ISSN: 2312-5381.
2. Received an acceptance for Article “**A New Way for Face Sketch Construction and Detection Using Deep CNN**” in **Scopus Indexed** International Journal on

Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 to be published in Jan 2024

3. Received an acceptance for Article **“Microcontroller Based Smart Automated Public Garden Maintenance System”** in **Scopus Indexed** Springer book series Lecture Notes in Networks and Systems title of the proceedings Artificial Intelligence in Internet of Things (IoT): Key Digital Trends: Proceedings of 8th International Conference on Internet of Things and Connected Technologies (ICIoTCT 2023)
4. Paper entitled **“Machine Learning based classification of X-ray images using convolutional neural networks”** accepted for publication in **Scopus indexed** Springer Proceedings of 3rd International conference on Advances in Machine Learning and Big Data Analytics - Key trends shaping the future of ML and Big Data Analytics (ICMLBDA2023).
5. Paper Published on **“THE ROLE OF MATHEMATICS IN MACHINE LEARNING”** in **Scopus indexed** Journal of Data Acquisition and Processing 2023, **38** (1): 1062-1073
6. Published Article **“Crop Leaf Disease Detection in Soybean Crop Using Deep Learning Technique”** In: Pawar, P.M., et al. Techno-societal 2022. ICATSA 2022. Springer, Cham. https://doi.org/10.1007/978-3-031-34644-6_5.
7. Received an Acceptance for Article **“An Optimized CNN-Based Approach for Efficient Object Detection using YOLO”** **Scopus indexed** Springer Proceeding in mathematics and statistics presented 9 th ICCM 2023.
8. Paper Published on **“Noise Temperature in Single Injection Cylindrical Current Flow in Insulator at Low and High Injection Level of Current”** in **Scopus indexed** Journal of Journal of Survey in Fisheries Sciences Vol. 10 No. 1S (2023): Special Issue 1
9. Paper Published on **“Real-Time Detection of Face Mask and Social Distancing”** in **Scopus indexed** Proceedings of 7th International Conference on Computing in Engineering and Technology, ICCET 2022 ; 303 SIST:352-358, 2022.
10. Paper published on **“Smart Pilgrim Center : IOT based Security System at Pilgrim Center”** by MB Patil, VV Bag, SA Talekar in International **Scopus indexed** journal Elementary Education Online, 2021 EEO. 2021; 20(4): 2100-2105 Doi: 10.17051/ilkonline.2021.04.240.
11. Paper entitled **“Stock Price Trend Prediction and Recommendation using Cognitive Process”** published in **Scopus Indexed** IGI Global International Journal of Rough Sets and Data Analysis (IJRSDA) April 2017 Volume 4 Issue 2 Pages 36-48 DOI :10.4018/IJRSDA.2017040103 Indexed in ACM Digital Library
12. Paper entitled **“Secure Extraction of Association Rules in Parallel Disseminated Data”** published in IJCSN Oct 2016 vol 5 issue 5 pages 728-733

13. Paper entitled “**Classification of Unstructured Data Using Machine Learning Algorithm**” published in (IJETTCS) Volume 5, Issue 5, September - October 2016 Pages 72-76
14. Paper entitled “**Clustering Multi-Attribute Uncertain Data using Probability Distribution**” by Prof.V.V.Bag, Mr. V.V.Kulkarni (PG Student) in International Journal of Computer Applications IJCA 0975 – 8887 Volume 102– No.5, September 2014.
15. Paper entitled “**Detection of Brain Tumour Using Classification Alogrithm**” by Prof.V.V.Bag Ms. Amruta Chitari (PG Student) in International Journal of Inventions in Computer Science and Engineering ISSN (Online): 2348 – 3539, ISSN (Print): 2348 – 3431 Volume 1 Issue 6 July 2014.
16. Paper entitled “**Development of Context Based Collaborative Filtering System for Recommendation**” by Prof.V.V.Bag Mr.Rohit Pawar (PG Student) in IJEDR ISSN: 2321- 9939 Volume 2, Issue 3.
17. Paper entitled “**Distance Based Cluster Formation Technique for LEACH Protocol in Wireless Sensor Network**” by Prof.V.V.Bag Miss. Snehal Kole and Prof. K.N.Vhatkar in International Journal of Application or Innovation in Engineering & Management ISSN 2319 – 4847 Volume 3, Issue 3, March 2014.
18. Paper entitled “**Clustering Multi-Attribute Uncertain Data Using Jenson-Shannon Divergence**” by Prof.V.V.Bag & Mr. V.V.Kulkarni in International Journal of Application or Innovation in Engineering & Management ISSN 2319 - 4847 Volume 3, Issue 8, August 2014.
19. Paper entitled “**Intra and Inter Sector Stock Price Forecasting using Association Rule Mining (IISARM)**” by Prof. V. V. Bag Mr. Vishal Adheli in International Journal of Engineering Research & Technology (IJERT)Vol. 3 Issue 8, August – 2014 ISSN: 2278-0181
20. Paper entitled “**Testing Approach for Automatic Test Case Generation and Optimization Using genetic Algorithm**” by Prof. V. V. Bag, Mr. S. A. Yemul in International Journal of Emerging Trends Technology in Computer Science (IJETTCS)Volume 3, Issue 5, September-October 2014 ISSN : 2278-6856
21. Published a paper in proceedings of National Level Conference on NCBPEE2007 titled “**Organizational behavior it’s improvement by software engineering process model’s training**” at STES, Pune.
22. Published a paper on “**The Challenges in Security Management**” at International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences organized by Saurashtra University, Rajkot, Gujrat(India).
23. Presented a paper in National Level Conference on “**User Identification system using Image Processing** “ at College of Engineering, Pandharpur.

24. Presented a paper in national level competition on “**Quality Technical Education through Computers and Internet**” at Equinox National Level IT Conference, Mumbai.
25. Presented a review paper on “**Network and its security**” at National Conference On Emerging Trends in Engineering & Technology FRONTIER-2007
26. Presented a paper on “ **Recommendation System and Web Personalization for Stock Market Prediction**” at National conference I-TechVista 2010 organized by PVPIT, Budhagaon, Sangali.

Workshop/FDP/STTP/NPTEL Courses attended

1. Completed 4 NPTEL Courses in Machine Learning, Data Structures using Python, C Programming, NBA Accreditation etc.
2. Organized One day conference on “Emerging Trends in Computer and Electronics Engineering” in NKOCET, Solapur
3. Organized Two day workshop on “Use of animation in Technical Education” for the faculty members of NKOCET, Solapur
4. Organized and coordinated two weeks ISTE STTP on Database Management System under NMEICT, MHRD, India
5. Attended AICTE ISTE sponsored short term training program on “**Distributed Computing COM/CORBA**” at Dr. BATU, Lonere.
6. Attended AICTE ISTE sponsored short term training program on “**Modern Computer Networking**” at Dr. BATU, Lonere.
7. Attended one day workshop on “**Role of Internet in Placement**” in Govt. College of Engineering, Pune.
8. Attended two days National Level Symposium on “**Emerging Trends in Database Technology**” at PIET, Pune.
9. Attended two days workshop on “**Multimedia Techniques**” at SKNCOE, Pune.
10. Attended five days training course on “**Object Oriented Analysis and Design using the UML with fundamentals of Rational Rose**” arranged by IBM.
11. Attended two days workshop on “**Linux Awareness**” in WCE, Sangli on 6th, 7th Oct 2007.
12. Attended two days workshop on “**Ubuntu Linux**” at WIT, Solapur
13. Two days workshop on **Network simulator** at WCE sangli under TEQIP on 17th, 18th March 2008.
14. Two days workshop on **Research Methodologies** in IT at Dr. D.Y. Patil Insti. of Engg & Tech, Pune on 3rd, 4th Oct 2008

15. One week FDP on **C, C++ and Data structures** at C-DAC, Pune during 24/06/2010 to 30/06/2010.
16. FDP on **IBM DB-2** organized by IBM during 08/04/2010 to 10/04/2010
17. Two days training program on **Enhancing Skills for System Improvement** at WCE, Sangli During 6/03/2009 to 7/03/2009
18. One day Workshop on **Self Development through Neuro Linguistic Programming** on 11 July 2009 at NKOCET, Solapur
19. **Wipro Mission10X** workshop organized by Wipro Ltd. During 05/12/2011 to 09/12/2011
20. Seminar on **C and Data structure** organized by Indo-US Collaboration for Engineering Education at Hyderabad on 06/01/2012
21. Workshop on **Adobe Flex** organized by Adobe, India on 16/02/2013
22. Seminar On **Understanding JAN-2013 Format of NBA** organized by WCE, Sangli during 15th and 16th March 2013.
23. Seminar on **Introduction to e-Learning Through the Usage of Online Courses** at NKOCET, Solapur
24. Co-ordinators' workshop on **Database Management Systems** organized by IIT, Bombay during 06/05/2013 to 10/05/2013.
25. Attended two weeks ISTE STTP **Computer Programming** organized by IIT, Bombay during 20/05/2014 to 24/05/2014 and 16/06/2014 to 21/06/2014
26. Attended **Theme Meeting on Mirco-Nano Technology in Service of Rural India** organized by BARC, Mumbai and SVERI, Pandharpur

Activities Organized and Coordinated

- Worked as an Expert for National Level Technical Symposium "**Kshitij-2004**" and "**Kshitij-2005**".
- Worked as a Co-ordinator of "**Prakalp-2006 a National Level Technical Symposium**" on 18th , 19th March 2006 in College of Engineering, Pandharpur.
- Worked as **Head of Department of Computer Science and Engineering**, SVERI's, College of Engineering, Pandharpur for three years.
- Worked as **NBA Coordinator** for College of Engineering, Pandharpur.
- Worked as **IT Head** for four years in NKOCET, Solapur
- Working as **Web Site Incharge** and **ERP coordinator** for NKOCET, Solapur

- Organized one day conference on “**Emerging Trends in Computer and Electronics Engineering**” in NKOCET, Solapur
- Organized two days workshop on “**Use of animation in Technical Education**” for the faculty members of NKOCET, Solapur.
- Organized and coordinated two weeks ISTE STTP on **Database Management System** under NMEICT, MHRD, India.
- Worked as **coordinator for conducting online examination** like GATE, PG CET, Bank exams organized by TCS, Persistent, IBPS etc.
- Worked as **BOS, Member of Computer Science and Engineering**, Solapur Univesity, Solapur.
- Worked as **Governing Body Member** of SKN Sihagad College of Computer Management, Korti, Pandharpur.
- Worked as **Judge** for many Conferences, Project Exhibitions and Programming Competitions.
- Working as Coordinator for Aakash Project Center of IIT, Bombay.
- Worked as **Head of Department of Computer Science and Engineering** in N.K. Orchid College of Engineering and Technology, Solapur from 2008 till date.
- Worked as Dean(Administration) in N.K. Orchid College of Engineering and Technology, Solapur from 2017 to 2023.

Invited Talks/ Lectures

- Delivered Expert Lectures on Computer Network, Computer Graphics in Sangola College, Sangola to M.Sc. I and II program.
- Delivered Expert Lectures on Data Communication in Shankarrao Mohite Mahavidyalaya, Akulj Dist. Solapur to M.Sc. II program.
- Delivered guest lectures on Mobile Computing in School of Computational Sciences of Solapur University, Solapur to M.Sc. program.
- Delivered a talk on **Use of Animation in Technical Education** in IT, TradeFair organized by Computer Society of India, Solapur Chapter.
- Delivered expert lectures on Application of Data Mining in SES Polytechnic, Solapur
- Delivered expert lectures on B and B+ Trees in SPM Polytechnic, Solapur.
- Worked as Resource person for Faculty Development Program on “ICT Tools” at FabTech Technical Campus, Sangola

- Worked as Resource person for Faculty Development Program on “ICT Tools” at Faltan Education Society, College of Engineering, Phaltan

Professional Body Membership

- Life member of I.S.T.E.
- Member of Institution of Engineers
- Member of Computer Society of India
- PG recognized teacher of Solapur University, Solapur.

- **Worked as BOS, Member of Computer Science and Engineering, Solapur University, Solapur.**
- **Working as BOS, Member of Computer Engg, Dr. BATU, Lonere Maharashtra**

Dr. Vipul V. Bag