BIO-DATA

Name	:	**PRABHAT VERMA**
Date of Birth	:	21.06.1970.
Nationality	:	Indian
Father's Name	:	Late shri J. P. Verma
Sex	:	Male
Marital Status	:	Married
Address (Residence)	:	IV/D-5, East Campus, H.B.T.U., Nawabgunj, Kanpur-208002 (U.P.)
Contact	:	9935654823
Mail Id	:	pverma@hbtu.ac.in

Academic Qualifications

- **Ph.D.** (Computer Science & Engineering) from Uttarakhand Technical University, Dehradun in January, 2013.

- **M.Tech** (Computer Science and Engineering) from Uttar Pradesh Technical University, Lucknow in September, 2008 with CPI 9.67.

- **B.E** (Computer Technology) from Samrat Ashok Technological Institute Vidisha, Barkatullah University (Formerly Bhopal University), Bhopal in 1992 with 72% aggregate.

- **Higher Secondary Certificate** from M.P. Board, Bhopal, securing 75% (PCM), in 1988.

- **High School** from M. P. Board, Bhopal, securing 71% in 1986.

Ph. D. Details

Title: "Speech as Interface in Web-Applications for Visually Challenged".
Supervisor: Professor Raghuraj Singh, CSE Deptt., HBTU, Kanpur
Discipline: Computer Science & Engineering
Area: Human-Computer Interaction
University: Uttarakhand Technical University, Dehradun, Uttarakhand, India.
Date of award: 13.01.2013

M. Tech Dissertation

Topic: "A Quality Assessment Model for Object-Oriented Software Systems"

Supervisor: Prof. Raghuraj Singh, CSE Deptt., HBTU, Kanpur, Uttar Pradesh.

Professional Experience

- Currently, working as Professor in Computer Science and Engineering Department, Harcourt Butler Technical University, Kanpur, Uttar Pradesh, India since 13.01.2019.
- Worked as Associate Professor in Computer Science and Engineering Department, Harcourt Butler Technical University, Kanpur, Uttar Pradesh, India from 13.01.2016 to 12.01.2019.
- Worked as Asst. Professor in Computer Science and Engineering Department, Harcourt Butler Technical University, Kanpur, Uttar Pradesh, India from 09.04.2003 to 12.01.2016.
- Worked as Lecturer in MCA Department at V.B.S. Purvanchal University, Jaunpur, Uttar Pradesh, India from 28.05.2001 to 08.04.2003.
- 1.5 Years' experience as JRF at Institute of Engineering and Technology (IET),Lucknow, Uttar Pradesh, India.
- Five Years' working experience in Private Sector.

Administrative Experience

- Working as Deputy Controller of Examinations since 2018.
- Worked as Deputy Coordinator for HBTU NAAC Criterion 2 Team.
- Worked as Convener, Hobby Club, USAC, HBTU Kanpur from 2014-23.
- Worked as Hostel Warden, Sridharacharya Hostel from 2018-23.
- Worked as Hostel Warden, Ramanujan Hostel from 2016-2018.
- Member, Board of Examinations, HBTU, Kanpur.
- Member, Ordinance Committee for preparation of Ph.D. and M.C.A. Ordinances of HBTU, Kanpur.
- Worked as Member, BOS for HBTU, Kanpur, KNIT, Sultanpur and CSJM University, Kanpur.
- Worked as Joint Controller of Examination at HBTI, Kanpur from April, 2009-2012.
- Worked as Coordinator, HBTI- UPTU from January, 2008- 2012.
- Worked as Hostel Warden, Lake-View-III from 2007-2011.

Journal Publications

1. Amit Chaudhary, Prabhat Verma. Road Surface Quality Detection Using Light Weight Neural Network for Visually Impaired Pedestrian. EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10, Issue 02, pp706-714, June 2023 (Scopus Indexed).

2. Anurag Tewari and Prabhat Verma. An Improved User Identification based on Keystroke-Dynamics and Transfer Learning. **Webology**. Volume 19, No 1, 2022. Pages: 5369-5387. DOI: 10.14704/WEB/V19I1/WEB19360

3. Sudheer Kumar Singh, Dr. Prabhat Verma, Dr. Pankaj Kumar. SENTIMENT ANALYSIS OF COVID-19 EPIDEMIC USING MACHINE LEARNING ALGORITHMS ON TWITTER. **JCR**. 2020; 7(18): 2565-2572. doi:10.31838/jcr.07.18.322 (Scopus Indexed).

4. Sudheer Kumar Singh, Dr. Prabhat Verma, Dr. Pankaj Kumar. A Mathematical Prediction Model on Sentiment analysis of Twitter data. International Journal of Psychosocial Rehabilitation. 2020. Volume 24- Issue 8 Pages: 8283- 8294 ISSN:1475-7192. DOI: 10.37200/IJPR/V24I8/PR280836 (Scopus Indexed)

5. Sudheer Kumar Singh, Dr. Prabhat Verma, Dr. Pankaj Kumar. SENTIMENT ANALYSIS USING MACHINE LEARNING TECHNIQUES ON TWITTER: A CRITICAL REVIEW. Advances in Mathematics: Scientific Journal 9 (2020), no.9, 7085–7092 ISSN: 1857-8365 (printed); 1857-8438 (electronic) https://doi.org/10.37418/amsj.9.9.58 Spec. Issue on MEM-2020 (Scopus Indexed)

6. Verma Prabhat, (2016) A Framework for Evaluating Personal Behavioral Interviews, International Research Journal of Computer Science, ISSN: 2393-9842 Volume 3 Issue 3 March 2016.

7. Tewari Anurag, Verma Prabhat, (2016) Security and Privacy in E-Healthcare Monitoring with WBAN: A Critical Review, International Journal of Computer Applications , ISSN 0975-8887, Volume 136- No 11, February 2016.

8. Singh Pratibha, Sonkar Smriti, Verma Prabhat,(2015) Optimization Techniques in C – A Survey, International Journal of Computer Applications, ISSN 0975 – 8887Volume 115 – No. 20, April 2015.

9. Gupta Nitika, Seth Nistha,Verma Prabhat, (2015) Optimal Code Compiling in C, International Journal of Computer Science and Information Technologies, ISSN:0975-9646, Vol.6 (3) , 2015.

10. Singh Raghuraj, Verma Prabhat, Garg Isha and Yadav Vibhash,(2015), Assessment of Maintenance Activities of Object-Oriented Software using Ripple Effect Analysis, International Journal of Innovations and Advancement in Computer Science, IJIACS, ISSN 2347-8616, Volume 4, Special Issue March 2015.

11. Verma Prabhat, Singh Raghuraj, Singh Avinash Kumar, (2013) A framework to integrate speech based interface for blind web users on the websites of public interest, Published in Human-centric Computing and Information Sciences, A SpringerOpen International Journal, 2013, 3:21. DOI: 10.1186/2192-1962-3-21 (SCIE, Impact Factor 5.9)

12. Verma Prabhat, Singh Raghuraj, Singh Avinash Kumar, (2012). A Framework for the Next Generation Screen Readers for Visually Challenged, published in International Journal of Computer Applications, Vol. 48, June 2012 Issue, ISBN: 978-93-80864-63-6, published by the Foundation of Computer Science, New York, USA.

13. Verma Prabhat, Singh Raghuraj, (2012) A Framework for Performance Evaluation of Internet Assistive Tools for Blind Users, published in the International Journal of Advances in Computer Science and its Applications (IJCSIA) December 2012 Issue (Volume 2 Issue 3). ISSN:2250 - 3765. This Paper was presented at International Conference on Advances in Electronics, Electrical and Computer Science Engineering - EEC 2012.

14. Verma Prabhat, Singh Raghuraj, Singh Avinash Kumar, (2011). SICE: An Enhanced Framework for Design and Development of Speech Interfaces on Client Environment, published in International Journal of Computer Applications, Number 3 – Article 1, 2011. ISBN: 978-93-80864-63-6, published by the Foundation of Computer Science, New York, USA.

15. Singh Raghuraj, Yadav C.S. and Yadav Vibhash, (2010). Optical Character Recognition (OCR) for Printing Devnagari Script using Artificial Neural Network", International Journal on Science and Communication, Vol.1, No. 1, January 2010.

Conference Publications

1. Chaudhary, A., Verma, P. (2023). Segmentation of Sidewalk for Visually Impaired Using Convolutional Network U-Net. In: Dutta, P., Chakrabarti, S., Bhattacharya, A., Dutta, S., Piuri, V. (eds) Emerging Technologies in Data Mining and Information Security. Lecture Notes in Networks and Systems, vol 491. Springer, Singapore. https://doi.org/10.1007/978-981-19-4193-1_42

2. Chaudhary, A., Verma, P. (2023). Path Segmentation for Visually Impaired People Using U-Net Architecture. In: Dutta, P., Chakrabarti, S., Bhattacharya, A., Dutta, S., Piuri, V. (eds) Emerging Technologies in Data Mining and Information Security. Lecture Notes in Networks and Systems, vol 491. Springer, Singapore. https://doi.org/10.1007/978-981-19-4193-1_41

3. Anamika Maurya and Dr. Prabhat Verma. (2021) A Comprehensive Analysis of Obstacles Detection Techniques Using Convolutional Neural Networks for Visually Impaired Persons in Recent Trends in Communication and Electronics CRC Press 2021,

4. Chaudhary, Amit and Verma, Dr. Prabhat, State of Art on Wearable Device to Assist Visually Impaired Person Navigation in Outdoor Environment (March 11, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) February 8-9, 2019, Available at SSRN: https://ssrn.com/abstract=3350316 or http://dx.doi.org/10.2139/ssrn.3350316

5. Chaudhary Amit, Verma Prabhat. (2018) Crime Range Forecasting using Improved Random Forest in National Conference on Intelligent Computing, Communication and Data Science (NCICCD-2018) November 29-30, 2018, published by Department of CSE, Harcourt Butler Technical University, Kanpur

6. Singh Sudheer, Verma Prabhat, (2017) A Survey of Game Theoretic Models in Social Networking in Recent Advances in Information & Communication Technologies (RAICT-2017) during 25-26 March, 2017 at HBTU, Kanpur published by CSE Department, HBTU, Kanpur ISBN 978-03-86256-82-9.

7. Yadav Neha, Yadav Vibhash and Verma Prabhat, (2016) Role of Evolutionary Algorithms in Software Reliability Optimization, in Proceedings of the SMART-2016, IEEE Conference ID 39669. 5th International Conference on

System Modeling & Advancement in Research Trends, November 25-27, 2016, TMU, Moradabad, India.

8. Verma Prabhat, Singh Raghuraj, Yadav Vibhash, Verma Sakshi, Dubey Akanksha, (2016) A Behaviour Assessment Tool for SSB Interviews, in International Conference on Advanced Computing and Software Engineering organized by Department of CSE, KNIT Sultanpur during 14th-15th October, 2016.

9. Verma Prabhat, Singh Raghuraj (2015) Developing Speech –based Web Browser for Visually Impaired Users, CSI-2015, 50th Golden Jubilee Annual Convention on "Digital Life" 02-05 December, 2015.

10. Verma Prabhat, Singh Raghuraj, (2012) A Framework for Performance Evaluation of Internet Assistive Tools for Blind Users, at International Conference on Advances in Electronics, Electrical and Computer Science Engineering - EEC 2012. Dehradun.

11. Verma Prabhat, Singh Raghuraj, Singh Avinash Kumar, Yadav Vibhash, Pandey Aditya,(2010) An Enhanced Speech based Internet Browsing System for Visually Challenged, *IEEE International Conference on Computer and Communication Technology (ICCCT-2010) at* MNNIT, Allahabad during September, 17-19, 2010, published in IEEExplore. ISBN: 978-1-4244-9033-2, DOI:10.1109/ICCCT.2010.5640374, Pages: 724-730.

12. Verma Prabhat, Singh Raghuraj, Singh Avinash Kumar, (2010) TC-GXML - A Transcoder for HTML to XML Grammar, *IEEE International Conference on Data Storage and Data Engineering* (DSDE-2010) February 9-10, 2010, Bangalore, India. Published in IEEE Computer Society, 978-0-7695-3958-4/10. DOI 10.1109/ DSDE.2010.69

13. Singh Raghuraj, Verma Prabhat, Singh Avinash Kumar, (2010) WACTA: A Speech-based Web Browser for Visually Challenged, presented at Second IEEE International Conference on Intelligent Human Computer Interaction (IHCI-2010), January 16-18, 2010, IIIT, Allahabad. Published by Springer.

14. Verma Prabhat, Singh Raghuraj, Yadav Vibhash,(2009) Use of Dependence Matrix for Assessment of Object-Oriented Software Design Quality *In*

Proceeding of IEEE International Conference on Advance Computing, (IACC 2009) March 6-7, 2009 at Thapar University, Patiala. Page 2351-2354.

Research Papers presented in International / National Conferences

1. An Integrated Nation-wide Health Care System in India: Is it too Difficult to Achieve? In 15th International Telehealth Conference of Telemedicine Society of India, organized by Telemedicine Society of India during 29th November-1st December, 2019

2. Enabling Service Oriented E-Commerce for Differently Able and Elderly Users. In National Conference on Enterpreneurship Development and Technological Innovation (NCEDTI-2019) organized by School of Humanities and Social Sciences, HBTU, Kanpur during March 01-02, 2019

Webinars /Conference/ Seminar/ Workshops / Schools Organized

1. Coordinator in one week National Level FDP cum STTP on Recent Trends and Advancements in the era of Machine Learning organized by CSE Department, HBTU Kanpur during July 19-24,2021.

2. Organizing Committee Member, National Conference on Intelligent Computing, Communication and Data Science (NCICCD-2018) November 29-30, 2018, published by Department of CSE, Harcourt Butler Technical University, Kanpur

3. Worked as Activity Coordinator in TEQIP- III Sponsored Induction Programme for New Entrants, 2017-18 at HBTU, Kanpur during January 15-21,2018.

4. Organizing Secretary, Recent Advances in Information & Communication Technologies (RAICT-2017) Sponsored by TEQIP-II during 25-26 March, 2017 at HBTU, Kanpur

5. Chaired a Session for National Conference on Recent Advances in Information & Communication Technologies (RAICT-2017) Sponsored by TEQIP-II during 25-26 March, 2017 at HBTU, Kanpur

6. Member of Technical Committee of 5th International Conference on System Modeling & Advancement in Research Trends, November 25-27, 2016, TMU, Moradabad, India.

7. Assistant Coordinator for TEQIP-II Sponsored One week Staff Development Program (SDP) on Computer Fundamentals and Information

Technology held during July 18-23, 2016 at CSE Department, HBTI, Kanpur

8. Organizing Secretary of National Level Seminar on "Issues and Challenges of Computer Science and Engineering as a Discipline" organized by Computer Science and Engineering Department, Harcourt Butler Technological Institute, Kanpur on March 09, 2013.

9. Organizing Committee Member of One Week Faculty Development Program on "Simulation and Analysis of Engineering Systems" organized by Computer Science and Engineering Department, Harcourt Butler Technological Institute, Kanpur during October 25-30, 2013 under TEQIP (Phase II), World Bank.

10. Technical Review Committee Member of 3rd IEEE International Advance Computing Conference (IACC-2013) February 22-23, 2013 Ghaziabad (UP)-201009, India

S. No.	Webinar organized (CSE Deptt., HBTU, Kanpur)	Date of organization	No. of Registered Candidates	No. of actual Participants
1.	Webinar on MATLAB for AI, Machine Learning and Deep Learning	April 30, 2020	105	81
2.	Webinar ON Microsoft EduCloud and Digital Transformation With 21st Century Tools	May 12, 2020.	254	174
3.	Webinar ON Computer communication networks lab experiments and R& D using netsimTM	May 20, 2020.	303	163
4.	Webinar ON Integrated Development Environment For IoT Applications	May 26, 2020.	337	244
5.	ONLINE TRAINING PROGRAMME ON Machine learning with matlab	October 22, 2020	91	71

Workshops / Schools Attended

1. Participated in one week National Level FDP cum STTP on Recent Trends and Advancements in the era of Machine Learning organized by CSE Department, HBTU Kanpur during July 19-24,2021.

2. Participated in TEQIP-III Sponsored Five Days Professional Development Training during May 05-10, 2019 at IIM, Kashipur.

3. Participated in TEQIP-III Sponsored Faculty Development Programme on "Mathematical Modeling and Research Methodology" organized by Department of Mathematics, School of Basic and Applied Sciences, HBTU, Kanpur during October 08-12, 2018.

4. Participated in TEQIP-III Sponsored Summer Training Programme on Active Learning for Senior Faculty at IIT, Kanpur during June 11-15, 2018.

5. Participated in TEQIP-III Sponsored Workshop on "Outcome based Accreditation for Undergraduate Engineering Programs" organized by HBTU, Kanpur and UPTTI, Kanpur during March 22-23, 2018.

6. Participated in TEQIP-III Sponsored Workshop on Dynamics and Control of Rotorcraft at IIT, Kanpur during February 2-6, 2018.

7. Participated in TEQIP-III sponsored training workshop on Academic Process for the Implementation of Outcome based Education (OBE) at HBTU, Kanpur during February 19-23, 2018.

8. Attended three days TEQIP-II Sponsored workshop on Intellectual Property Rights and Patenting" Conducted by ESCI, Hyderabad during 27-29 August, 2016.

9. Attended six days workshop on "Effective Teaching- Learning Process" conducted by Humanities Department, HBTI, Kanpur During 17-23 March, 2013.

10. Attended Winter School on Speech and Audio Processing (WiSSAP-09) organized by IIT Kanpur in association with ISCA and IEEE during 9th-12th January 2009.

11. Attended the short term Course on "Program Optimization for Multi-Core Architecture" conducted by the Department of Computer Science and Engineering, IIT Kanpur from June 30, 2008 to July 5, 2008.

12. Participated in Faculty Training Program held by Accenture during 29th-30th November, 2007.

13. Attended a six days intensive course on Soft Computing Techniques and Applications at IIIT, Allahabad during May 15- 20, 2007.

14. Attended a two days workshop on "DB2, Web Technologies and Software Development concepts" organized by IET, Lucknow in collaboration with IBM India Ltd. During Dec 11-12, 2006.
15. Attended a two days Faculty Development Program by Satyam at NSIT, New Delhi during July 2006.
16. Attended four days workshop on Rational Suite held at HBTI, Kanpur under TEQIP during Dec 21-24,2005.
17. Attended a Short Term Course on Linux System and Network Administration at IIT Kanpur during December 2004.
18. Attended the QIP Short Term Course on "Advanced Algorithms" held at the Department of Computer Science and Engineering, IIT Guahati during July 19-23, 2004.

Invited Lectures

1. Delivered a lecture in in one week National Level FDP cum STTP on Recent Trends and Advancements in the era of Machine Learning organized by CSE Department, HBTU Kanpur during July 19-24,2021.
2. Delivered an Expert Lecture in Short Term Course on "Recent Trends in Computer Science and Engineering" organized by Department of Computer Science & Engineering, Bundelkhand Institute of Engineering and Technology, Jhansi, UP during February 22 – 26, 2021.
3. Delivered an Expert Lecture in One Week Workshop on "AI For Engineering Research" jointly organized by Department of CSE, Thiagrajar College of Engineering, Madurai and Department of CSE, HBTU, Kanpur under TEQIP-III held during 11th November -15th November 2019.
4. Delivered an Expert Lecture in One Week Faculty Development Programme on "Applications of Artificial Intelligence" organized by Department of Information Technology, Rajkiya Engineering College, Banda (U.P.) under TEQIP-III held during 30th October -03rd November 2018.
5. Delivered an Expert Lecture in Five Days Workshop on "C Programming Language" organized by Shri Shakti Degree College, Ghatampur, Kanpur during October 10-15, 2018.
6. Delivered an Expert Lecture in One Week Short Term Course on Emerging Trends and Technology in Internet of Things (IoT) and Cloud Computing at G. B. Pant Institute of Engineering and Technology, Pauri, Uttarakhand during September 10-14, 2018.

7. Delivered an expert lecture on "Hidden Markov Model" in FDP on "IT Tools and Optimization" organized by Kanpur Institute of Technology, Kanpur during June 6-11, 2016.
8. Delivered a Lecture in TEQIP-II Sponsored One week Staff Development Program (SDP) on Computer Fundamentals and Information Technology held during July 18-23, 2016 at CSE Department, HBTI, Kanpur.
9. Delivered Lecture on "WWW 2.0 and Big Data" at Institute of Research, Development and Training (IRDT), Kanpur at Faculty Development Program in October 2013.
10. Delivered Lecture on "Object Oriented Modeling using UML" in One week Faculty Development Program on "Simulation and Analysis of Engineering Systems" organized by Computer Science and Engineering Department, Harcourt Butler Technological Institute, Kanpur during October 25-30, 2013 under TEQIP (Phase II), World Bank.
11. Delivered Lecture on "Features of ArgoUML for Object Oriented Modeling" in One week Faculty Development Program on "Simulation and Analysis of Engineering Systems" organized by Computer Science and Engineering Department, Harcourt Butler Technological Institute, Kanpur during October 25-30, 2013 under TEQIP (Phase II), World Bank.

Sponsored Projects Undertaken

Co-Investigator in UGC sponsored Major project "Design and Development of a Web Browser for the visually challenged".(2009-2012) Principal Investigator of the project is Prof. Raghuraj Singh. The project is completed.

Book Writing/Book Chapters/Contents Development/Review

- Maurya Anamika, Verma Prabhat, A Comprehensive Analysis of Obstacle Detection Techniques Using Convolution Neural Networks for Visually Impaired Persons In Recent Trends in Communication and Electronics First Edition 2021 (SCI Indexed) CRC Press (Taylor and Francis Group) ISSN 9781 0031 93838
- Verma Prabhat, Singh Raghuraj, Developing Speech-Based Web Browsers for Visually Impaired Users, S.S. Agrawal et. al. (eds.) Speech and Language Processing for Human Machine Communications, Advances in Intelligent Systems and Computing 664, pp. 107-118. Springer 2018
- Verma Prabhat, Speech as Interface in Web Applications for Visually Challenged, GRIN Publishing, Germany, ISBN: 978-3-668-10360-3,

- Developed Pedagogy for the Book titled "Java Fundamentals" by Herbert Schildt and J. Skiren, McGraw Hill, New Delhi, First Indian Edition, 2012.
- Reviewed the Book "Programming with Java: A Primer" by E. Balagurusami, McGraw Hill, 4th Edition, 2012.
- Reviewed the Book "Java Programming: A Practical Approach" by C Xavier McGraw Hill, 2011.

Ph. D. Supervision

AKTU Lucknow (01 Awarded)

1. Mr. Sudheer Kumar Singh
   Title: Models for social computing in web applications

HBTU (06 Undergoing)

1. Mr. Amit Chaudhary
   Title: Determination of Safe Path for Visually Challenged Pedestrian
2. Mrs. Anamika Maurya
   Title: Obstacle Detection for Visually Challenged Persons using IoT and Computer Vision
3. Mr. Gaurav Kishore
   Title: Software Defect Identification using Machine Learning Techniques
4. Mr. Anurag Tiwari
   Title: Using Deep Learning for Keystroke Dynamics based Biometric Authentication
5. Ms. Harshita Gupta
   Title: Framework for HealthCare System using Fog Computing and Block Chain
6. Mr. Amlendra Kumar
   Title: Detection of Disease with Iris/ Retina/ Sclera (Iridology) using Machine Learning

Memberships of Professional Bodies

- Life Member, Computer Society of India (CSI). Grade- Member
- Treasurer, CSI, Kanpur Chapter.

Areas of Interest

- Object Technologies / Software Engineering
- Human Computer Interaction / Accessibility
- Artificial Intelligence / Machine Learning

PRABHAT VERMA