


CURRICULUM VITAE

Name	Dr. Yadav Prasad Raiwani		
Father's Name	Late Sh. B.P. Raiwani		
Date of Birth	05-10-1966		
Department	Computer Science and Engineering		
Designation	Professor & Head (Computer Science and Engineering)		
Campus	Hemvati Nandan Bahuguna Garhwal University Srinagar Garhwal Uttarakhand-246174, India		
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Email	<i>yp_raiwani@yahoo.com</i> <i>raiwani@gmail.com</i>		
Education Qualification	Ph. D.		
Areas of Interest/ Specialization	Data Mining, Machine Learning, Networking, Big data, Pattern Recognition and Signal Processing, Cloud Computing.		
Teaching Experience	32 Years*	Research Experience	27 Years
*Teaching Experience/Post Held			
Name of Institution	Position Held	From	To
H.N.B. Garhwal University (A Central University)	Dean, School of Engineering & Technology	25-01-2020	24-01-2023
H.N.B. Garhwal University (A Central University)	Head, Department of Computer Science and Engineering	24-01-2021	23-01-2024
H.N.B. Garhwal University (A Central University)	Professor, Computer Science & Engineering	01-4-2013	Till Date
Administrative Experience:			
<ul style="list-style-type: none"> • Dean, School of Engineering & Technology, since 25.01.2020 to 24.01.2023 • Head Dept. of Computer Science and Engineering since 24.01.2021 to 23.01.2024 • Deputy Controller Examination (Main) since 17.01.2017 to 01.01.2019. • Assistant Proctor since 18.08.2015 to 30.06.2018. • Assistant Proctor for three years since 15.07.2008 to 30.7.2011. • Deputy Controller Examination (PC) since 06.09.2004 to 01.03.2006. • Head Computer Science since 11.02.2000 to 10.08.2004 at SRT Campus Badshahithaul, H.N.B Garhwal University. 			

- Programme Officer NSS since 25.01.2002 to 10.08.2005 at SRT Campus Badshahithaul, HNB Garhwal University.
- Head and Convener Computer Science, since 23.10.1996 to 10.02.2000 at HNB Garhwal University Srinagar.
- Academic In-charge B.Tech. (CSE) from 2009 to 2020.

Professional Development Activities:

(Member of Scientific Organization/Academic Institutions/Universities)

- Senior Life Member, Computer Society of India
- Member IAENG (International Association of Engineers)
- Organised a National Seminar on “Combating Disaster in Himalaya” on the Occasion of National Himalayan Day (2013).
- Chairman/Expert / Member of various selection committees such as Member of selection committee for the recruitment of Faculty positions in Central Tribal University of Andhra Pradesh, Scientist-E in DEAL Dehradun, Programmer cum Information Officer and IT Assistant cum Information Assistant at G.B. Pant Institute of Himalayan Environment & Development, Research Scientist, Programmer and Field Assistant in NRDMS Centre Tehri, Member of Selection committee for the Post of Assistant Professor, Associate Professor and Professor in the School of Engineering and Technology, HNBSGU Srinagar etc.
- Involved in various confidential work; including Paper Setting, Generation of Question Bank, Moderator, Reviewer and Expert of Uttarakhand Public Service Commission, Govt. of Uttarakhand, Karnataka Public Service Commission etc.
- Expert/Examiner of Universities such as MJP Ruhelkhand University Bareilly, Kumaon University Nainital, Indira Gandhi National Open University New Delhi, Awadh University Faizabad, Gurukul Kangri University Haridwar, MCRP Bhopal, MDU Rohtak, Sri Dev Suman Uttarakhand Viswavidyalaya, Uttarakhand Technical University Dehradun, SRM University Chennai, SHUATS Allahabad and various other Universities.

Others:

- Member of Executive Council of HNB Garhwal University, Srinagar Garhwal, Uttarakhand.
- Member Executive committee of HNB Garhwal University Alumni Association.
- Secretary, HNB Garhwal University Teachers’ Association for the session 2013-2014 and 2018-2019 and 2019-2020.
- Treasurer HNB Garhwal University Teachers’ Association for three consecutive terms (2010-2011, 2011-2012 and 2012-2013)

Research Supervision (No. of Ph. D. Degree Awarded / Registered)

- (i) Ph.D. Degree Awarded : 03 Candidates
- (ii) Registered for Ph.D. : 03 Candidates

Awarded:

- **Sushma Bahuguna (2014)**

Title of the Thesis: “Empirical Study of Emotion Based Speaker Identification for Hindi Speech”.

- **Mukesh Rawat (2017)**

Title of the Thesis: *“Domain Independent Automatic Cluster Generation of Documents”*.

- **Shailesh Singh Panwar (2022)**

Title of the Thesis: *“Comparative Study of Performance Evaluation for Intrusion detection using Machine Learning Algorithms”*.

Registered:

- **Prgya Baluni**

Topic: *“Automatic Face Naming, Enhanced Learning Discriminative Affinity Matrices”*.

- **Kanchan Naithani**

Topic: *“Extraction of Sentiments from Textual Contents Using Natural Language Processing through Machine Learning”*.

- **Shailratan Bhatt**

Topic: *“Assessment of Spatio-Temporal Land Landuse/Land Cover Dynamics in Uttarakhand Using GEE Platform with Machine Learning Algorithms”*

Conference/Symposium/Workshop Attended:

- 3rd International Conference on Intelligent Communication, Control and Devices, UPES Dehradun on 21st & 22nd December, 2018.
Paper Presented: *“Performance Analysis of NSL-KDD Dataset Using Classification Algorithms with Different Feature Selection Algorithms and Supervised Filter Discretization”*.
- ICDL-2013, International Conference on Digital Libraries, organised by The Energy and Resource Institute (TERI) New- Delhi, 27-29 November 2013.
Paper Presented: *“An Approach to Manage Enterprise Knowledge”*.
- RATIM-2012, International Conference on Recent Advances in IT and IT Management, organised by Department of Computer Applications, SGRRITS, Dehradun Uttarakhand, 28-29 February, 2012
- ICDL-2006, International Conference on Digital Libraries, organised by The Energy and Resource Institute (TERI) New- Delhi, collaboration with Dept. of Tourism and Culture Govt. Of India, 5-8 December, 2006.
Paper Presented: *“Secure Virtual Private Network Using IPsec”*
- ICDL-2004, International Conference on Digital Libraries, organised by The Energy and Resource Institute (TERI) New- Delhi, collaboration with Dept. of Tourism and Culture Govt. Of India, 24-27 February, 2004.
Paper Presented: *“Importance of RFID Technology in Library”*
- International Conference on *“Vedic Values and Corporate Excellence”*. Gurukul Kangri University Haridwar and Shantikunj Haridwar, 22-24 Feb, 2002.

Paper Presented: “New Winds and Destiny of E-Business and E-Commerce”.

- International Conference on “The Physics of Disordered Materials” during Jan 27-29, 1997. University of Rajasthan Jaipur (Rajasthan).
- International conference on “Strongly Co-related Electron Systems” (SCES-95), September 27-30, 1995, in Goa Organised by Tata Institute of Fundamental Research.

National Conferences:

- 2nd National Conference on Recent Innovations in Emerging Technology and Science (NCRIETS - 2018), Organized by JB Institute of Technology, Dehradun in Collaboration with USERC during 06-07 April, 2018. (Chaired a Technical session of “Computer Science and Engineering”.
- National Seminar on Climate Change, Resources Bio-Diversity and Environmental Challenges, Organised by Dept. of Geography during October 28-30, 2015.
- National Seminar on “Challenges of Livelihood Restoration in Disaster-hit Regions of Uttarakhand”, Organised by Dept. of Geography, H N B Garhwal University Srinagar Garhwal Uttarkhand, during, Nov. 28-29, 2014.
- National seminar on "Uttarakhand Disaster: Contemporary Issues of Climate Change and Development with a holistic approach", Organised by Sri Dev Suman Uttarakhand University, Badshathaul, Tehri Garhwal, Uttarakhand during 25-27 October, 2013.
- National Conference on “Strategies for Sustainable Business Growth in India”, Organised by PIMT, Mandi Gobindh-garh Punjab on 5th October 2013.
- Workshop on “Responsibility Sharing and work Distribution on Uttarakhand Disaster – Lessons for Future Planning in the Indian Himalayan Region”, Organised by CHEA at FRI Dehradun on Sept 13, 2013.
- National Seminar on “Resource Environment and Development of the Indian Himalaya: Issues and Strategies for sustainable Development” Dept. of Geography, H N B Garhwal University Srinagar Garhwal Uttarakhand during Nov. 02-04, 2011.

Paper Presented: “Importance of Baseline Databank for Road Safety in Uttarakhand”.

- National seminar on “Contemporary Issues in IT and E-Business”, during 31st March 2007, IIMT Management College, Meerut. Paper Presented: “An Expert System for Identifying Plant”.
- 2nd All India conference of Central Government Library Association (CGLA), during 29-31 October, 2006, Indira Gandhi National Forest Academy, Dehradun Uttaranchal. Paper Presented: “Digital Libraries: Issues and Challenges”.
- Twelfth National Symposium on Environment (NSE-12) held at during June 5-7, 2003, HNB Garhwal University, Badshahithaul Campus, Tehri Garhwal.

Research Publications:

- Naithani, K., & **Raiwani, Y. P.** (2023, January). Novel ABC: Aspect Based Classification of Sentiments Using Text Mining for COVID-19 Comments. In *Machine Learning, Image Processing, Network Security and Data Sciences*, (pp. 203-219). Cham: Springer Nature Switzerland.
- Kharakwal, K., **Raiwani, Y. P.**, & Verma, R. (2023, January). A Review on Skin Pigment and Vein Pattern Detection Techniques. In *Machine Learning, Image Processing, Network Security and Data Sciences*, (pp. 53-67). Cham: Springer Nature Switzerland
- Manish K, **Raiwani, Y.P.**, Singh, Jitendra (2023), Neural Network Based Machine Learning Method for Predicting Solubility of Carbon Dioxide in Ionic Liquids, *International Journal of Research and Analytical Reviews*, 10(1), 849-876
- Naithani, Kanchan and **Raiwani, Y. P.** (2022). Polarity and Subjectivity Analysis for Social Media Sentiments Amidst COVID-19. Available at SSRN: <https://ssrn.com/abstract=4173709> or <http://dx.doi.org/10.2139/ssrn.4173709>
- Naithani, K., **Raiwani, Y. P.**, & Sissodia, R. (2022, January). Text-based analysis of COVID-19 comments using natural language processing. In *Artificial Intelligence and Speech Technology: Third International Conference, AIST 2021, Delhi, India, November 12–13, 2021*, (pp. 195-209). Cham: Springer International Publishing.
- Panwar, S. S., **Raiwani, Y. P.**, & Panwar, L. S. (2022, November). An Intrusion Detection Model for CICIDS-2017 Dataset Using Machine Learning Algorithms. In *2022 International Conference on Advances in Computing, Communication and Materials (ICACCM)* (pp. 1-10). IEEE.
- Chauhan, S. P., **Raiwani, Y. P.**, & Verma, M. R. (2022). Using Machine Learning to Detect Fake News: A Comprehensive Search. *Journal of East China University of Science and Technology*, 65(4), 71-74.
- Naithani, K., & **Raiwani, Y. P.** (2022). Realization of natural language processing and machine learning approaches for text-based sentiment analysis. *Expert Systems*, e13114.
- Panwar, S. S., & **Raiwani, Y. P.** (2020). Performance analysis of NSL-KDD dataset using classification algorithms with different feature selection algorithms and supervised filter discretization. In *Intelligent Communication, Control and Devices: Proceedings of ICICCD 2018* (pp. 497-511). Springer Singapore.
- Panwar, S. S., & **Raiwani, Y. P.** (2020). Improving the Performance of Classification Algorithms with Supervised Filter Discretization Using WEKA on NSL-KDD Dataset. In *Advances in Air Pollution Profiling and Control: Select Proceedings of HSFEA 2018* (pp. 217-227). Springer Singapore.
- Singh Panwar, S., **Raiwani, Y. P.**, & Panwar, L. S. (2019, March). Evaluation of network intrusion detection with features selection and machine learning algorithms on CICIDS-2017 dataset. In *International Conference on Advances in Engineering Science Management & Technology*

(ICAESMT)-2019, Uttarakhand University, Dehradun, India.

- Panwar, S. S., Negi, P. S., Panwar, L. S., & **Raiwani, Y. P.** (2019). Implementation of machine learning algorithms on CICIDS-2017 dataset for intrusion detection using WEKA. *International Journal of Recent Technology and Engineering Regular Issue*, 8(3), 2195-2207.
- Baluni, P., Verma, S. K., & **Raiwani, Y. P.** (2017). Automatic Face Naming Using Image Processing: A Review Study Based on Face Name Detection in Images or Videos. In *Advances in Computing and Data Sciences: First International Conference, ICACDS 2016, Ghaziabad, India, November 11-12, 2016, Revised Selected Papers 1* (pp. 357-368). Springer Singapore.
- Bahuguna, S., & **Raiwani, Y. P.** (2016). A study of speech emotion and speaker identification system using VQ and GMM. *Int. J. Comput. Sci*, (13), 4.
- Sati, S. P., & **Raiwani, Y. P.** (2016). Response of Himalayan eco-system to anticipate climate change. *Journal of Climate Change*, 2(2), 71-82.
- **Raiwani, Y. P.**, & Baluni, P. (2015). Study of road accident patterns in Uttarakhand using k-means algorithm. *IJAIEEM*.
- **Raiwani, Y. P.**, & Panwar, S. S. (2015). Data reduction and neural networking algorithms to improve intrusion detection system with NSL-KDD dataset. *International Journal of Emerging Trends & Technology in Computer Science*, 4(1), 219-225.
- Panwar, S. S., & **Raiwani, Y. P.** (2014). Data reduction techniques to analyze NSL-KDD Dataset. *Int. J. Comput. Eng. Techno*, 5(10), 21-31.
- **Raiwani, Y. P.**, & Panwar, S. S. (2014). Research challenges and performance of clustering techniques to analyze NSL-KDD dataset. *Int. J. Emerg. Trends Technol. Comput. Sci. (IJETTCS)*, 3(6), 172-177.
- **Raiwani, Y. P.**, & Baluni, P. (2014). Extraction of Road Accident Patterns in Uttarakhand Using Neural Network. *International Journal of Civil Engineering and Technology*, 5(8).
- Baluni, P., & **Raiwani, Y. P.** (2014). Vehicular accident analysis using neural network. *International Journal of Emerging Technology and Advanced Engineering*, 4(9), 161-164.
- **Raiwani, Y. P.** (2013). Internet of things: a new paradigm. *International Journal of Scientific and Research Publications*, 3(4), 323-326.
- Bahuguna, S., & **Raiwani, Y. P.** (2013). Study of Speaker's Emotion Identification for Hindi Speech. *International Journal on Computer Science and Engineering*, 5(7), 596.
- Bahuguna, S., & **Raiwani, Y. P.** (2013). A Study of Acoustic Features Pattern of Emotion Expression for Hindi Speech. *International Journal of Computer Engineering & Technology (IJCET)*, 4(6), 16-24.
- **Raiwani, Y. P.** (2012). Network management, security & privacy issues in e-commerce. *Journal of Information and Operations Management*, 3(1), 217.
- **Raiwani, Y. P.**, Bhatt, R. M., & Gairola, A., (2007). Impact of Modeling and Simulation for

Conductivity Measurements, International Journal of Advanced Research in Computer and Communication Engineering, 5(7), 583.

- Painuli, C. P., Bhatt, R. M., **Raiwani, Y. P.**, Srivastava, S., Gairola, S. C., Gairola, R. P., ... & Tiwari, M. D. (2004). Electronic heat capacity of crystalline solids.
- Srivastava, S., **Raiwani, Y. P.**, Gairola, S. C., & Indu, B. D. (1996). Electrons in anharmonic phonon fields of low-dimensional high-Tc superconductors. Physica B: Condensed Matter, 223, 538-540.

Conference Paper Published in Journal/Proceedings:

- Panwar, S. S., **Raiwani, Y. P.**, & Panwar, L. S. (2022, November). An Intrusion Detection Model for CICIDS-2017 Dataset Using Machine Learning Algorithms. In 2022 International Conference on Advances in Computing, Communication and Materials (ICACCM) (pp. 1-10). IEEE.
- Improving the Performance of Classification Algorithms with Supervised Filter Discretization Using WEKA on NSL-KDD Dataset, S S Panwar, **Y P Raiwani** - Advances in Air Pollution Profiling and Control, 217-227(2020) Springer, Singapore.
- Performance Analysis of NSL-KDD Dataset Using Classification Algorithms with Different Feature Selection Algorithms and Supervised Filter Discretization, Shailesh Singh Panwar, **Y P Raiwani**, Intelligent Communication Control and Devices 497-511(2020) Springer, Singapore.
- “Automatic Face Naming Using Image Processing: A Review Study Based on Face Name Detection in Images or Videos”, by Pragya Baluni, S.K. Verma, **Y.P. Raiwani**, published by Advances in Computing and Data Sciences (Springer Singapore) Pp (357-368)2017.
- “Digital Libraries: Issues and Challenges” by S.P. Kulshrestha, Lata Nautiyal, **Y.P. Raiwani**, Published in the proceedings of the 2nd All India Conference of Central Government Library Association (CGLA), Published by Indira Gandhi National Forest Academy, Dehradun Uttaraanchal (2006) Edited by V.P. Singh,R.K. Sood,A.K. Suman and Ram Niwas.
- “Microwave Attenuation in Low Dimensional High Tc Superconductors”, by **Y.P.Raiwani**, Sanjiv Srivastava, S.C.Gairola, B.D.Indu and M.D.Tiwari. Published in the proceedings of the international conference published by **National Institute of Science Communication New Delhi** (1997) pp 275-278.

(Dr Y.P. Raiwani)