

Malik Muhammad Saad Missen, Ph.D.

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Employment History

Regular

- Aug 2024 – Now  **Chairperson** Department of Software Engineering, The Islamia University of Bahawalpur (IUB), Pakistan
- March 2022 – Aug 2024  **Associate Professor** Department of Information Technology, The Islamia University of Bahawalpur (IUB), Pakistan
- Dec 2011 – March 2022  **Assistant Professor** Department of Computer Science & Information Technology, The Islamia University of Bahawalpur (IUB), Pakistan
- May 2004 – Dec 2011  **Lecturer** Department of Computer Science & Information Technology, The Islamia University of Bahawalpur (IUB), Pakistan
- Oct 2002 – May 2004  **Consultant Tutor for Computer Science** Department of Computer Science, Virtual University of Pakistan, Lahore

Additional

- May 2014 – March 2015  **Post Doctorate Researcher** University of La Rochelle, France
- Feb 2020 – Aug 2020  **Adjunct Faculty** Maynooth International Engineering College (MIEC), China (Maynooth University Ireland)

Education

- 2007 – 2011  **Ph.D., University of Toulouse III, Toulouse, France**
Thesis title: *Combining Granularity-Based Topic-Dependent and Topic-Independent Evidences for Opinion Detection*
- 2006 – 2007  **Masters in Computer Science (M2R), University of Toulouse III, Toulouse, France**
Thesis title: *The Small World of Web Network Graphs.*
- 1998 – 2002  **Bachelors in Computer Science (BSCS), The Islamia University of Bahawalpur, Pakistan**
Project title: *Building a Smart Shopping Cart for online Shopping.*

Research Publications

Journal Articles

- 1 A. Nadeem, M. M. S. Missen, M. S. Al Reshan, *et al.*, “Resolving ambiguity in natural language for enhancement of aspect-based sentiment analysis of hotel reviews,” *PeerJ Computer Science*, vol. 11, e2635, 2025.
- 2 K. Sattar, S. Z. Zahra, M. Faheem, M. M. S. Missen, R. N. Bashir, and M. Z. Abbas, “Tropical cyclone intensity prediction using spatio-temporal data fusion,” *IEEE Access*, 2025.
- 3 N. I. Kajla, M. M. S. Missen, M. Coustaty, H. M. S. Badar, M. Pasha, and F. Belbachir, “A histogram-based approach to calculate graph similarity using graph neural networks,” *Pattern Recognition Letters*, 2024.

- 4 N. Salamat, M. M. S. Missen, N. Akhtar, M. Mustahsan, and V. Surya Prasath, "Color image restoration by filtering methods: A review," *Soft Computing*, vol. 28, no. 13, pp. 7755–7782, 2024.
- 5 M. Arshad, A. M. Qamar, M. M. S. Missen, A. A. Lodhi, and V. Prasath, "Global trends and collaborations in dengue virus research: A scientometric and bibliometric overview (1872–2019)," *International Journal of Design & Nature and Ecodynamics*, vol. 18, no. 6, pp. 1539–1548, 2023.
- 6 J. U. Hassan, M. M. Saad Missen, A. Firdous, A. Maham, and A. Ikram, "An adaptive m-learning usability model for facilitating m-learning for slow learners," *International Journal of Interactive Mobile Technologies*, vol. 17, no. 19, 2023.
- 7 Quratulain, M. M. S. Missen, and S. Prasath, "Lrap: Layered ring based adaptive and personalized usability model for mobile commerce apps," *International Journal of Interactive Mobile Technologies*, vol. 17, no. 12, 2023.
- 8 K. Sattar, S. Z. Zahra, M. Faheem, M. M. S. Missen, R. N. Bashir, and M. Z. Abbas, "Stacked ensemble model for tropical cyclone path prediction," *IEEE Access*, 2023.
- 9 S. Shamin, M. M. S. Missen, A. M. Qamar, A. Firdous, Q. U. Ain, and V. S. Prasath, "Global trends in poliomyelitis research: A bibliometric analysis from 1857–2019," *Journal homepage: http://ieta.org/journals/ijdne*, vol. 18, no. 6, pp. 1333–1346, 2023.
- 10 A. Fida, M. Karim, A. Firdous, H. Asmat, M. M. S. Missen, and M. A. Nizamani, "Systematic review and usability evaluation covid-19 mobile applications in a developing nation," *University of Sindh Journal of Information and Communication Technology*, vol. 6, no. 4, Dec. 2022, (HJRS Y Category).
- 11 A. Fida, M. Karim, A. Firdous, M. M. S. Missen, M. A. Nizamani, and M. A. Memon, "Parental engagement in online learning for university students during covid-19," *University of Sindh Journal of Information and Communication Technology*, vol. 6, no. 4, Dec. 2022, (HJRS Y Category).
- 12 M. Karim, M. M. S. Missen, M. Umer, A. Fida, A. Mohamed, I. Ashraf, *et al.*, "Comprehension of polarity of articles by citation sentiment analysis using tf-idf and ml classifiers," *PeerJ Computer Science*, vol. 8, e1107, 2022.
- 13 M. Karim, M. M. S. Missen, M. Umer, S. Sadiq, A. Mohamed, and I. Ashraf, "Citation context analysis using combined feature embedding and deep convolutional neural network model," *Applied sciences*, vol. 12, no. 6, p. 3203, 2022.
- 14 M. R. Mehmood, N. I. Kajla, M. D. A. Awan, M. M. S. Missen, M. U. Chaudhry, and A. Firdous, "Accident alert system of vehicle and life security using iot devices and image processing," *Journal of Computing & Biomedical Informatics*, vol. 4, no. 01, pp. 197–206, 2022.
- 15 N. Salamat, A. H. Arif, M. Mustahsan, M. M. S. Missen, and V. S. Prasath, "On compacton traveling wave solutions of zakharov-kuznetsov-benjamin-bona-mahony (zk-bbm) equation," *Computational and Applied Mathematics*, vol. 41, no. 8, p. 365, 2022.
- 16 D. Ali, M. M. S. Missen, and M. Husnain, "Multiclass event classification from text," *Scientific Programming*, vol. 2021, no. 1, p. 6 660 651, 2021.
- 17 M. D. Ali Awan, S. Ali, A. Samad, N. Iqbal, M. M. Saad Missen, and N. Ullah, "Sentence classification using n-grams in urdu language text," *Scientific Programming*, vol. 2021, no. 1, p. 1 296 076, 2021.
- 18 M. D. A. Awan, N. I. Kajla, A. Firdous, M. Husnain, and M. M. S. Missen, "Event classification from the urdu language text on social media," *PeerJ Computer Science*, vol. 7, e775, 2021.
- 19 A. Firdous, A. U. Rehman, and M. M. S. Missen, "A gray image encryption technique using the concept of water waves, chaos and hash function," *Ieee Access*, vol. 9, pp. 11 675–11 693, 2021.
- 20 M. Hamdi, A. Rehman, A. Alghamdi, M. A. Nizamani, M. M. S. Missen, and M. A. Memon, "Internet of things (iot) based water irrigation system," *International Journal of Online & Biomedical Engineering*, vol. 17, no. 5, 2021.

- 21 M. Husnain, M. M. S. Missen, N. Akhtar, M. Coustaty, S. Mumtaz, and V. S. Prasath, "A systematic study on the role of sentiwordnet in opinion mining," *Frontiers of Computer Science*, vol. 15, no. 4, p. 154 614, 2021.
- 22 M. Husnain, M. M. Saad Missen, S. Mumtaz, *et al.*, "Urdu handwritten characters data visualization and recognition using distributed stochastic neighborhood embedding and deep network," *Complexity*, vol. 2021, no. 1, p. 4 383 037, 2021.
- 23 N. I. Kajla, M. M. S. Missen, M. M. Luqman, and M. Coustaty, "Graph neural networks using local descriptions in attributed graphs: An application to symbol recognition and hand written character recognition," *IEEE Access*, vol. 9, pp. 99 103–99 111, 2021.
- 24 M. M. S. Missen, A. Naeem, H. Asmat, *et al.*, "Improving seller–customer communication process using word embeddings," *Journal of Ambient Intelligence and Humanized Computing*, vol. 12, pp. 2257–2272, 2021.
- 25 N. Salamat, M. M. S. Missen, and V. Surya Prasath, "Recent developments in computational color image denoising with pdes to deep learning: A review," *Artificial Intelligence Review*, vol. 54, no. 8, pp. 6245–6276, 2021.
- 26 M. Umer, S. Sadiq, M. M. S. Missen, *et al.*, "Scientific papers citation analysis using textual features and smote resampling techniques," *Pattern recognition letters*, vol. 150, pp. 250–257, 2021.
- 27 M. O. Akbar, M. S. Shahbaz khan, M. J. Ali, *et al.*, "Iot for development of smart dairy farming," *Journal of Food Quality*, vol. 2020, no. 1, p. 4 242 805, 2020.
- 28 D. Ali, M. M. S. Missen, M. A. Memon, M. A. Nizamani, and A. Shaikh, "Extracting temporal entity from urdu language text," *University of Sindh Journal of Information and Communication Technology*, vol. 4, no. 3, pp. 181–188, 2020.
- 29 S. Arshad, F. A. Tahir, A. Rashid, M. S. Missen, and J. A. Flint, "Co-planar-waveguide fed circularly polarized antenna for wireless wlan/lte applications," *Electromagnetics*, vol. 40, no. 5, pp. 354–363, 2020.
- 30 M. Husnain, M. M. Saad Missen, S. Mumtaz, M. Coustaty, M. Luqman, and J.-M. Ogier, "Urdu handwritten text recognition: A survey," *IET Image Processing*, vol. 14, no. 11, pp. 2291–2300, 2020.
- 31 N. I. Kajla, M. M. S. Missen, M. M. Luqman, M. Coustaty, A. Mehmood, and G. S. Choi, "Additive angular margin loss in deep graph neural network classifier for learning graph edit distance," *IEEE Access*, vol. 8, pp. 201 752–201 761, 2020.
- 32 M. M. S. Missen, S. Qureshi, N. Salamat, *et al.*, "Scientometric analysis of social science and science disciplines in a developing nation: A case study of pakistan in the last decade," *Scientometrics*, vol. 123, pp. 113–142, 2020.
- 33 M. M. Naeem, I. Hussain, and M. M. S. Missen, "A survey on registration hijacking attack consequences and protection for session initiation protocol (sip)," *Computer Networks*, vol. 175, p. 107 250, 2020.
- 34 N. Akhtar, A. Rehman, M. Hussnain, *et al.*, "Hierarchical coloured petri-net based multi-agent system for flood monitoring, prediction, and rescue (fmpr)," *IEEE Access*, vol. 7, pp. 180 544–180 557, 2019.
- 35 M. Attik, M. M. S. Missen, M. Coustaty, *et al.*, "Opinionml—opinion markup language for sentiment representation," *Symmetry*, vol. 11, no. 4, p. 545, 2019.
- 36 A. Firdous, A. ur Rehman, and M. M. Saad Missen, "A highly efficient color image encryption based on linear transformation using chaos theory and sha-2," *Multimedia Tools and Applications*, vol. 78, pp. 24 809–24 835, 2019.
- 37 M. Husnain, M. M. S. Missen, S. Mumtaz, M. M. Luqman, M. Coustaty, and J.-M. Ogier, "Visualization of high-dimensional data by pairwise fusion matrices using t-sne," *Symmetry*, vol. 11, no. 1, p. 107, 2019.

- 38** M. Husnain, M. M. Saad Missen, S. Mumtaz, *et al.*, "Recognition of urdu handwritten characters using convolutional neural network," *Applied Sciences*, vol. 9, no. 13, p. 2758, 2019.
- 39** M. M. S. Missen, A. Javed, H. Asmat, *et al.*, "Systematic review and usability evaluation of writing mobile apps for children," *New Review of Hypermedia and Multimedia*, vol. 25, no. 3, pp. 137–160, 2019.
- 40** M. M. S. Missen, D. M. Khan, H. Asmat, K. Faiz, and N. Akhtar, "Profile based team captain recommendation system," *Technical Journal*, vol. 24, no. 03, pp. 83–89, 2019.
- 41** M. Nosheen, Z. Sayed, M. S. Malik, and M. A. Fahiem, "An evaluation model for measuring the usability of mobile office applications through user interface design metrics," *Mehran University Research Journal of Engineering & Technology*, vol. 38, no. 3, pp. 641–654, 2019.
- 42** S. Qadri, S. Furqan Qadri, M. Husnain, *et al.*, "Machine vision approach for classification of citrus leaves using fused features," *International Journal of Food Properties*, vol. 22, no. 1, pp. 2072–2089, 2019.
- 43** N. Salamat, M. M. S. Missen, and A. Rashid, "Diabetic retinopathy techniques in retinal images: A review," *Artificial intelligence in medicine*, vol. 97, pp. 168–188, 2019.
- 44** N. Salamat, M. Mustahsan, and M. M. Saad Missen, "Switching point solution of second-order fuzzy differential equations using differential transformation method," *Mathematics*, vol. 7, no. 3, p. 231, 2019.
- 45** S. Shamshad, M. Shahid, C. Dumat, *et al.*, "A multivariate analysis of health risk assessment, phytoremediation potential, and biochemical attributes of spinacia oleracea exposed to cadmium in the presence of organic amendments under hydroponic conditions," *International journal of phytoremediation*, vol. 21, no. 5, pp. 461–470, 2019.
- 46** N. Akhtar, D. M. Khan, and M. M. S. Missen, "Formal validation of an agent-based location guidance system (lgs)," *Journal of Information Communication Technologies and Robotic Applications*, pp. 53–58, 2018.
- 47** P. Khalid, N. Ahmed, Z. U. Din, and M. M. S. Missen, "Estimation of reservoir properties from well logs and core plugs to reduce uncertainty in formation evaluation: A case study from the kohat-potwar geologic province," *Episodes Journal of International Geoscience*, vol. 41, no. 1, pp. 59–68, 2018.
- 48** M. A. Memon, M. A. Nizamani, and M. M. S. Missen, "Design of a robot for environmental monitoring to help in search and rescue," *Journal of Information Communication Technologies and Robotic Applications*, pp. 47–52, 2018.
- 49** M. M. S. Missen, D. M. Khan, and M. M. Aqib, "A comparative study of diversity in search results of search engines," *Journal of Information Communication Technologies and Robotic Applications*, pp. 1–7, 2018.
- 50** M. Nosheen, A. Anis, M. Malik, and M. Fahiem, "Classification of primary open angle glaucoma through genetic and demographic data," *The Nucleus*, vol. 55, no. 2, pp. 85–92, 2018.
- 51** M. Nosheen, M. M. S. Missen, and M. A. Fahiem, "A quality assessment model based on usability metrics for m-health applications user interfaces," *Journal of Information Communication Technologies and Robotic Applications*, pp. 1–8, 2018.
- 52** M. M. Saad Missen, M. Coustaty, N. Salamat, and V. S. Prasath, "Sentiml++: An extension of the sentiml sentiment annotation scheme," *New Review of Hypermedia and Multimedia*, vol. 24, no. 1, pp. 28–43, 2018.
- 53** N. Afzal, M. M. S. Missen, A. Firdous, N. Akhtar, H. Asmat, and S. Ullah, "Mobile technology based polio-vaccination system (pvs)–first step towards polio-free pakistan," *International Journal of Advanced Computer Science and Applications*, vol. 8, no. 2, 2017.
- 54** N. Akhtar, M. M. S. Missen, and R. Z. Hashmi, "Formal modeling and proving of campus management system: Event-b perspective," *Bahria University Journal of Information & Communication Technology*, vol. 10, no. 2, pp. 1–6, 2017.

- 55 S. Hussain, M. M. S. Missen, N. Akhtar, M. Husnain, I. Hussain, and M. A. Nizamani, "Empirical evaluation of social and traditional search tools for adhoc information retrieval," *International Journal of Advanced Computer Science and Applications*, vol. 8, no. 2, 2017.
- 56 A. Naseem, N. Akhtar, and M. S. Missen, "Formal specification of a truck geo-location big-data application," *International Journal of Advanced Computer Science and Applications*, vol. 8, no. 4, 2017.
- 57 N. Akhtar, M. M. S. Missen, N. Salamat, A. Firdous, and M. Husnain, "A study of resilient architecture for critical software-intensive system-of-systems (sisos)," *International Journal of Advanced Computer Science and Applications*, vol. 7, no. 8, 2016.
- 58 D. Ali, M. M. S. Missen, N. Akhtar, N. Salamat, H. Asmat, and A. Firdous, "Gender prediction for expert finding task," *International Journal of Advanced Computer Science and Applications*, vol. 7, no. 5, pp. 161–5, 2016.
- 59 M. Asif, M. M. S. Missen, N. Akhtar, H. Asmat, M. Husnain, and M. Asghar, "Hashtag the tweets: Experimental evaluation of semantic relatedness measures," *International Journal of Advanced Computer Science and Applications*, vol. 7, no. 6, 2016.
- 60 M. Farhan, M. M. S. Missen, N. Akhtar, M. A. Nizamani, A. Firdous, and H. Asmat, "Evaluating mobile phones and web sites for academic information needs," *International Journal of Advanced Computer Science and Applications*, vol. 7, no. 10, 2016.
- 61 M. Hameed, N. Akhtar, and M. S. Missen, "Role based multi-agent system for e-learning (masel)," *International Journal of Advanced Computer Science and Applications (IJACSA)*, vol. 7, no. 3, 2016.
- 62 N. Perveen, M. M. S. Missen, Q. Rasool, and N. Akhtar, "Sentiment based twitter spam detection," *International Journal of Advanced Computer Science and Applications*, vol. 7, no. 7, 2016.
- 63 A. Rashid, M. M. S. Missen, and N. Salamat, "Analysis of steganography techniques using least significant bit in grayscale images and its extension to colour images," *Journal of Scientific Research and Reports*, vol. 9, no. 3, pp. 1–14, 2015.
- 64 N. Salamat and M. M. S. Missen, "Fuzzy rule based salt and pepper noise removing in gray images," *British Journal of Mathematics & Computer Science*, vol. 6, no. 1, p. 53, 2015.
- 65 M. K. R. Rashid, S. Missen, and A. Rashid, "Robust increased capacity image steganographic scheme," *Transformation*, vol. 5, no. 11, 2014.
- 66 M. M. S. Missen, M. Boughanem, and G. Cabanac, "Opinion mining: Reviewed from word to document level," *Social Network Analysis and Mining*, vol. 3, pp. 107–125, 2013.
- 67 M. M. Saad Missen, F. Belbachirf, and G. Cabanac, "Combining document-level topic dependent and topic independent evidences for opinion retrieval," *Information interaction intelligence*, vol. 12, no. 1, 2012.

Conference Proceedings

- 1 A. Fida, M. Karim, A. Firdous, H. Asmad, M. M. S. Missen, and M. A. Nizamani, "Systematic review and usability evaluation of covid-19 mobile applications in a developing nation," in *1st International Conference on Emerging Trends in Information and Engineering Technologies (ICETIET-2022)*, Jamshoro, Pakistan, 2022.
- 2 A. Fida, M. Karim, A. Firdous, M. M. S. Missen, M. A. Nizamani, and M. A. Memon, "Parental engagement in university student's online learning during covid-19," in *1st International Conference on Emerging Trends in Information and Engineering Technologies (ICETIET-2022)*, Jamshoro, Pakistan, 2022.
- 3 A. Firdous, M. M. S. Missen, M. S. Ahmed, U. Waheed, and A. Maham, "Digital image encryption and decryption over a large distance using the network of networks," in *1st International "STEMS" Conference*, Bahawalpur, Pakistan, Mar. 2021.

- 4 A. Firdous, U. Waheed, M. S. Ahmed, M. M. S. Missen, and A. Maham, "Digital image encryption based on water waves concept using chaos and sha-3," in *1st International "STEMS" Conference*, Bahawalpur, Pakistan, Mar. 2021.
- 5 D. Ali, M. M. S. Missen, M. A. Memon, M. A. Nizamani, and A. Shaikh, "Extracting temporal entities in urdu language," in *1st National Conference on Emerging Trends in Information and Engineering Technology (NCETIET)*, Jamshoro, Pakistan, 2020.
- 6 M. A. Zahoor and M. M. S. Missen, "Lexicon-based sentiment analysis for roman urdu language," in *1st National Conference on Emerging Trends in Information and Engineering Technology (NCETIET)*, Jamshoro, Pakistan, 2020.
- 7 S. Hameed, M. M. S. Missen, H. Asmat, and A. Firdous, "Analyzing trusted data sources in tweets," in *4th International Conference on Computing and Mathematical Science (ICCMS)*, Sukkhur, Pakistan, Feb. 2017.
- 8 S. Mujahid, M. M. S. Missen, and D. M. Khan, "How tweets tell the same story? a lexical analysis," in *4th International Conference on Biological and Computer Science (C-BICS)*, Islamabad, Pakistan, Dec. 2016.
- 9 M. Attik and M. M. S. Missen, "Observe the tourist to better understand the tourism," in *Tourism Symposium ASTRES*, La Rochelle, France, Jun. 2015.
- 10 M. M. S. Missen, M. Attik, A. Doucet, C. Foucher, and M. Coustaty, "SentiML++: An extension of sentiml sentiment annotation scheme," in *12th ESWC*, Slovenia, May 2015.
- 11 M. M. S. Missen and A. Doucet, "Application of sentiment propagation on french and english book reviews," in *4th Workshop on Sentiment Analysis at SEPLN 2015*, Alicante, Spain, Sep. 2015.
- 12 N. Perveen, M. M. S. Missen, Q. R. Azeemi, and H. Asmat, "Sentiment based spam tweets detection," in *International and Interdisciplinary Conference on Twitter for Research*, Lyon, France, 2015.
- 13 M. M. S. Missen and A. Doucet, "Sentiment propagation through hierarchical clustering," in *5th International Conference of Information and Communication Technologies and Development (ICTD 2014)*, Doha, Qatar, May 2014.
- 14 M. M. S. Missen and A. Doucet, "Improving cross-language information retrieval using ontological mapping," in *6th CLEF Conference*, Valencia, Spain, Sep. 2013.
- 15 M. M. S. Missen and A. Doucet, "Using social context for sentiment propagation in tweets," in *3rd Workshop on Microblogging and Social Media Analytics*, Dublin, Ireland, Jul. 2012.
- 16 M. M. S. Missen and A. Doucet, "Propagation of emotional content in social networks," in *ACM Workshop on Social Media Analytics (SOMA)*, Chicago, USA, Aug. 2011.
- 17 M. M. S. Missen and A. Doucet, "Propagation of sentiment through communities in social networks," in *5th International Conference on Weblogs and Social Media (ICWSM)*, Barcelona, Spain, Jul. 2011.
- 18 M. M. S. Missen and A. Doucet, "Cross-language sentiment analysis using multilingual wordnets," in *8th International Conference on Language Resources and Evaluation (LREC)*, Valletta, Malta, May 2010.
- 19 M. M. S. Missen and A. Doucet, "Arabic-english cross-language information retrieval at clef," in *8th Cross-Language Evaluation Forum (CLEF)*, Corfu, Greece, Sep. 2009.
- 20 M. M. S. Missen and A. Doucet, "An overview of clef 2007 arabic-english track results," in *CLEF Working Notes*, Budapest, Hungary, 2007.
- 21 M. M. S. Missen and A. Doucet, "Cross-language information retrieval using an ontology-based approach," in *2nd Information Retrieval Conference*, Geneva, Switzerland, Nov. 2006.

Books and Chapters

- 1 R. Younis, A. R. P. Zada, M. M. S. Missen, *et al.*, "Predictive modeling of water levels using univariate and multivariate time series approaches," in *Water Resources Management and Sustainability: Solutions for Arid Regions*, Springer, 2025, pp. 111–129.
- 2 M. M. S. Missen, M. Coustaty, H. Asmat, *et al.*, "A review of information exchange and extraction in tourism information systems," in *Recommender System with Machine Learning and Artificial Intelligence: Practical Tools and Applications in Medical, Agricultural and Other Industries*, Wiley, Jun. 2020, ch. 3, pp. 45–70, ISBN: 9781119711582.
- 3 N. Iqbal, M. M. S. Missen, N. Salamat, and S. Prasath, "On video based human abnormal activity detection with histogram of oriented gradients," in *Handbook of Multimedia Information Security: Techniques and Applications*, A. K. Singh and A. Mohan, Eds., Springer, Jul. 2019.
- 4 M. M. S. Missen, *Opinion Mining in Blogs*. Germany: Lambert Academic Publishers, 2010.
- 5 M. M. S. Missen, M. Boughanem, and B. Gaume, "The small world of web network graphs," in *Wireless Networks, Information Processing and Systems*, Springer, 2009, ISBN: 978-3-540-89853-5.
- 6 M. M. S. Missen and M. Boughanem, "Using wordnet's semantic relations for opinion detection in blogs," in *Advances in Information Retrieval*, Springer, 2009, ISBN: 978-3-642-00957-7.

Research Projects

Role: Project Investigator

■ **An Intelligent Collaborative Platform for Learning Writing** This is a collaborative project between France and Pakistan under PERIDOT program of Higher Education Commission and is funded by HEC (Pakistan) and CampusFrance (France). Its main focus is on handwriting recognition and then make children learn from it with multimedia help provided by the system. It also has a component on collaborative learning. Web Site: <http://icsys.univ-lr.fr>

Role: Post Doctorate

■ **TourInFlux** TourInFlux was a big data project funded by the French government. It included academic and industrial partners in collaboration. The objective of the project was to provide a centralized control center to tourism stakeholders by aggregating massive web data to better understand the perception of the users and to identify elements of improvements in tourism. Web Site: <http://www.tourinflux.com>

Role: PhD Student

■ **Living Knowledge** The major aim of this project was to improve navigation and search in very large multimodal datasets (e.g., the Web itself). Living Knowledge studied the effect of diversity and time on opinions and bias, a topic with high potential for social and economic exploitation. It envisaged a future where search and navigation tools (e.g., search engines) will automatically classify and organize opinions and bias (about, e.g., global warming or the Olympic games in China). The overall goal of the Living Knowledge project was to bring a new quality into search and knowledge management technology, which makes search results more concise, complete and contextualized. WebSite: <http://livingknowledge.europarchive.org/index.php>

Research Projects (continued)

Role: Co-Project Investigator (Co-PI)

- **Design and Development of Formal Multi-Agent Information Management System** Higher Education Commission of Pakistan (HEC) funded project

Role: Project Investigator (PI)

- **Mobile Polio Vaccination Information System** ICTRnD, Pakistan funded project. The aim of the project was to facilitate the polio vaccination teams by providing them information about possible threats in a certain area and expected number of children in an area

Skills

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|-----------|--|
| Languages | ■ Strong reading, writing and speaking competencies for English, French and Urdu languages |
| Coding | ■ Python, R, C++, Matlab, Java, PHP, SQL, XML/XSL, L ^A T _E X, Expertise in Large Language Models (LLMs) programing with LangChain framework, RAG (Retrieval Augmented Generation) expert |
| Databases | ■ MySQL, PostgreSQL, HSQL, SQLite |
| Web Dev | ■ HTML, CSS, JavaScript, Apache Web Server, Tomcat Web Server. |
| Misc. | ■ Academic research, teaching, training, consultation, L ^A T _E X typesetting and publishing. |

Awards and Distinctions

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|-----------|--|
| Languages | ■ Strong reading, writing and speaking competencies for English, French and Urdu languages |
| Coding | ■ Python, R, C++, Matlab, Java, PHP, SQL, XML/XSL, L ^A T _E X, Expertise in Large Language Models (LLMs) programing with LangChain framework, RAG (Retrieval Augmented Generation) expert |
| Databases | ■ MySQL, PostgreSQL, HSQL, SQLite |
| Web Dev | ■ HTML, CSS, JavaScript, Apache Web Server, Tomcat Web Server. |
| Misc. | ■ Academic research, teaching, training, consultation, L ^A T _E X typesetting and publishing. |

Additional Responsibilities

Academic

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|------------------|---|
| Teaching | ■ Courses , I have been teaching different courses on undergraduate and post graduate levels including Information Retrieval, Machine Learning, Natural Language Processing, Text Mining, Human-Computer Interaction, Distributed Databases, Artificial Intelligence, Research Methodologies |
| Course Designing | ■ BS, MS and PhD , I have been actively participating in course design of degree programs on all academic levels i.e., BS, MS and PhD. I have an extensive experience in course management earned during my jobs at Virtual University and IUB. |

Additional Responsibilities (continued)

Research Work Review

- **Publications and Theses Reviewing.** Being part of program committee of many A-ranked conferences (like ECIR, SIGIR, etc) and reviewer for many prestigious journals, I am always helping research community by providing my expert opinions. Also I am on expert panel of many Universities for reviewing MS and PhD theses.

Subject Expert

- **Subject Expert in University Affiliation Committee, Selection Boards, Viva-Voce exams and Board of Studies (BoS),**

Project and Thesis Supervision

- **BS, MS and PhD levels,** I have been supervising undergrad final year projects, MS level theses (more than 100) and PhD theses (7 PhD scholars have completed PhD under my supervision).

Administrative

Aug 2024 – Now

- **Chairperson Department of Software Engineering, IUB.** I am administrating a department of more than 2600 students and 18 members of the staff. I am responsible for everything from admissions, academic activities, budget allocation to examinations. Part of Board of studies, Board of Faculty, Academic council

June 2015 to Dec 2019

- **BSCS Coordinator.** Looking after every academic matter of BS program i.e. academic activities and examination

March 2012 to Dec 2015

- **Director Weekend Program.** From budget allocation to its approval and to hiring visiting lecturers and support staff for controlling academic and examination activities of almost 1500 students for degree programs like BSCS, BSIT, MCS and MSCS

References

Available on Request