

## **Dr. Harmeet Kaur**

Associate Professor

Department of Computer Science, Hansraj College, University of Delhi, Delhi – 110007, India

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### **Educational Qualification**

PhD in Computer Science Department of Computer Science, University of Delhi, June 2007

*Thesis Title: Trust Based Decentralized Recommender Systems*

Master of Computer Applications (MCA), Panjab University, Chandigarh, 1997

B.Sc.(G) 'A' with Computer Science, Hans Raj College, University of Delhi, 1994

### **Work Experience**

|                       |   |
|-----------------------|---|
| Hans Raj College      | Associate Professor, since July 2010<br>Assistant Professor, from September 1999 to June 2010 |
| Kirori Mal College    | Assistant Professor, from September 1998 to September 1999                                    |
| Ram Lal Anand College | Assistant Professor (on temporary basis), from January 1998 to July 1998                      |

### **Visiting Faculty**

At Department of Operational Research, University of Delhi from July 2018 to December 2018

At Department of Computer Science, University of Delhi from July 2007 to December 2011, June 2017 – June 2022

### **Research Area**

Artificial Intelligence, Recommender Systems, Crowdsourcing

### **Papers Taught at Undergraduate Level**

1. Programming Fundamentals
2. Data Structures
3. Operating Systems
4. Database Management Systems
5. Computer System Architecture
6. Algorithms
7. Computer Graphics
8. Artificial Intelligence

## 9. Computer Networks

### **Papers Taught at Postgraduate Level**

#### ***MCA/M.Sc. (Computer Science)***

1. Programming Fundamentals
2. Operating Systems
3. Database Management Systems
4. Computer System Architecture

#### ***M.Sc. (Operational Research)***

1. Database Management Systems

### **Collaborative Teaching in the Department of Computer Science, University of Delhi**

#### ***Ph.D. Programme***

1. Part of Research Methodology Course work paper
2. Machine Learning: Course work paper

### **List of Research Scholars**

#### ***Ph.D.***

1. Bhavna Gupta, *Trust-Based Multiagent Service Recommender System*, PhD awarded in February 2014. Co-supervised with Prof. Punam Bedi. Department of Computer Science, University of Delhi
2. Deepali Jain, *Optimization of Trust Based Recommender Systems*, PhD awarded in December 2015. Department of Computer Science, University of Delhi
3. Jaya Gera, *Analytic Framework to Assess Crowdfunded Campaigns*, PhD awarded in February 2021. Department of Computer Science, University of Delhi
4. Vandana Kalra, *Analysis and Design of an Algorithmic Model for Generating Domain-Specific Vocabulary*, PhD awarded in March 2023. Co-supervisor with Dr. Indu Kashyap. Manav Rachna University, Faridabad
5. Mansi Sood, *Broad Area of Research – Crowd Sourcing*, Registered since August 2016. Department of Computer Science, University of Delhi
6. Pratibha Yadav, *Broad Area of Research – Recommender Systems*, Registered since December 2019. Department of Computer Science, University of Delhi
7. Musarrat Ahmed, *Broad Area of Research – Recommender Systems*, Registered since March 2021. Department of Computer Science, University of Delhi

### ***M.Phil.***

1. Jyoti Verma, *Semantic Web Enabled Recommender Systems*, 2008. Madurai Kamraj University
2. Ajit Kumar, *Dynamic Channel Aware Bandwidth Management in IEEE – 802.11 Networks*, 2009. Vinayaka Missions University, Salem – 636308, Tamil Nadu, India
3. Narender Singh, *Matrix Reload Based on Remote Access Through Advance Smart Devices*, 2010. Vinayaka Missions University, Salem – 636308, Tamil Nadu, India

### ***M.Sc. (Computer Science) Research Projects***

1. Jyotsna Tutreja and Mansi Sood, *Use of Web Mining Techniques to Generate Recommendations*, 2008. Co-supervised with Dr. Punam Bedi. Department of Computer Science, University of Delhi

### **Publications**

#### ***Journal Publications***

1. Pratibha Yadav, Jaya Gera, Harmeet Kaur. (2023). *Enhancing the accuracy of Collaborative Filtering based Recommender System with novel Similarity Measure*. Accepted for publication in *Multimedia Tools and Applications*.  
(SCIE and Scopus indexed)  
(Impact Factor 2022: 3.6)
2. Pratibha Yadav, Shweta Tyagi, Harmeet Kaur. (2023). *Evolutionary Extreme Learning Machine based Collaborative Filtering*. *International Journal of Advanced Technology and Engineering Exploration*, The ACCENTS, 10(104), 858–874, ISSN: 2394-7454, doi: <http://dx.doi.org/10.19101/IJATEE.2022.10100088>  
(Scopus indexed)
3. Vandana Kalra, Indu Kashyap, Harmeet Kaur. (2023). *ADS-Classif: A Robust Tool for Classifying Documents from Diverse Sources Using Weighted Domain-Specific Vocabulary*. *IETE Journal of Research*, Taylor and Francis. ISSN: 0377-2063, doi: 10.1080/03772063.2023.2177757  
(SCIE and Scopus indexed)  
(Impact Factor 2022: 1.5)
4. Om Trivedi, Harmeet Kaur. (2023). *Sentiment Analysis of Twitter Data*. *Hans Shodh Sudha*, 3(4), 31-37, ISSN: 2582-9777
5. Mansi Sood, Jaya Gera, Harmeet Kaur. (2022). *Creation, Evaluation, and Optimization of a Domain-based Dictionary*. *Journal of Intelligent & Fuzzy Systems*, IOS Press, 43(5), 6123-6136, ISSN: 1875 – 8967, doi: 10.3233/JIFS-220110  
(SCIE and Scopus indexed)  
(Impact Factor 2022: 2)

6. Vandana Kalra, Indu Kashyap, Harmeet Kaur. (2022). *Classification based Topic Extraction using Domain-Specific Vocabulary: A Supervised Approach*. Indonesian Journal of Electrical Engineering and Computer Science, Institute of Advanced Engineering and Science (IAES), 26(1), 442 – 449, ISSN: 2502-4752, <http://ijeecs.iaescore.com/index.php/IJEECS/article/view/26420>  
(Scopus indexed)
7. Vandana Kalra, Indu Kashyap, Harmeet Kaur. (2022). *Improving document classification using domain-specific vocabulary: Hybridization of deep learning approach with TFIDF*. International Journal of Information Technology, Springer, 14(5), 2451 – 2457, doi: <https://link.springer.com/article/10.1007/s41870-022-00889-x>, ISSN: 2511 – 2112  
(Scopus indexed)
8. Bhavna Gupta, Harmeet Kaur, Punam Bedi. (2022). *Enhancing System Robustness of Active Products using Trust based Collaboration*. Journal of Intelligent & Fuzzy Systems, IOS Press, 43(1), 939 – 956, ISSN: 1875 – 8967, doi: 10.3233/JIFS-212691  
(SCIE and Scopus indexed)  
(Impact Factor 2022: 2)
9. Vandana Kalra, Indu Kashyap, Harmeet Kaur. (2021). *Generation of Domain-Specific Vocabulary Set and Classification of Documents: Weight-Inclusion Approach*. International Journal of Information Technology, Springer, 14(1), 275 – 285, doi: <https://doi.org/10.1007/s41870-021-00830-8>, ISSN: 2511 – 2112  
(Scopus indexed)
10. Jaya Gera, Harmeet Kaur. (2018). *A novel framework to improve the performance of crowdfunding platforms*. Information & Communications Technology (ICT) Express, Elsevier, 4(2), 55-62, ISSN: 2405-9595, doi:10.1016/j.ict.2018.04.011.  
(Impact Factor 2022: 5.4)  
(SCIE, Scopus and KCI indexed) (Year: 2019, CiteScore: 5.9, SNIP: 1.498, SJR: 0.624)
11. Jaya Gera, Harmeet Kaur. (2017). Dynamics of Pledge Behaviour of Crowdfunded Projects. International Journal of Information Technology Project Management (IJITPM), IGI Global, 8(1), 72 – 86, ISSN: 1938 – 0232  
(Scopus, ESCI, Inspec indexed) (Year: 2019, CiteScore: 0.7, SNIP: 0.433, SJR: 0.231)
12. Mansi Sood, Harmeet Kaur. (2014). *Preference based Personalized News Recommender System*, in International Journal of Advanced Computer Research (IJACR), Vol. 4, No. 2, Issue 15, 575 – 581, ISSN: 2277 – 7970  
(Year: 2019, SNIP: 0.417, SJR: 0.113)
13. Harmeet Kaur, Deepali Jain. (2013). *Generating Trust Based Recommendations for Multiple Independent Domains*, in International Journal of Advanced Computer Research (IJACR), Vol. 3, No. 4, Issue 13, 88 – 97, ISSN: 2277 – 7970  
(Year: 2019, SNIP: 0.417, SJR: 0.113)
14. Harmeet Kaur, Deepali Jain. (2013). *Optimizing the Number of Neighbors in Trust Based Recommender Systems*, in International Journal of Computer Science Issues (IJCSI), 10 (4), Issue 4, No 2, 230 – 238, ISSN: 1694 – 0784

15. Punam Bedi, Harmeet Kaur, Bhavna Gupta. (2013). *A Reputation based Service Provider Selection System for Delegation of Job by Farmers*. Special Issue on "Applications of Artificial Intelligence in Agriculture", Journal of the Indian Society of Agricultural Statistics (JISAS), 67(1), 23 – 32, ISSN: 0019 – 6363
16. Punam Bedi, Harmeet Kaur, Bhavna Gupta. (2013). *Trust based Access Control for Collaborative System*, Journal of Experimental & Theoretical Artificial Intelligence (JETAI), Taylor and Francis, 26(1), 109-126, DOI: 10.1080/0952813X.2013.813973, ISSN: 1362 – 3079  
(SCIE, Scopus, Inspec indexed)  
(Impact Factor 2022: 2.2)  
(Year: 2019, CiteScore: 4.7, SNIP: 1.282, SJR: 0.416)
17. Punam Bedi, Harmeet Kaur, Bhavna Gupta. (2013). *An Agent based Reputation System for Unreliable Grid Environment*, International Journal of Modeling and Optimization (IJMO), 3(1), 74 – 79, DOI: 10.7763/IJMO.2013.V3.238, ISSN: 2010 – 3697
18. Harmeet Kaur, Deepali Jain. (2010). *Modulating Friendship Trust into Context Level Trust in Trust Based Recommender Systems*, in International Journal of Recent Trends in Engineering (IJRTE), ACEEE, USA (a division of IDES), 3(2), 58 – 63, ISSN: 2158 – 5563, DOI: 01.IJRTET.03.02.205
19. Bhavna Gupta, Harmeet Kaur, Punam Bedi. (2010). *A Reputation Based Service Provider Selection System for Farmers*, in Journal of Information Assurance and Security (JIAS), Vol. 5, 508 – 515, ISSN: 1554 – 1010
20. Punam Bedi, Harmeet Kaur, Bhavna Gupta, Jyotsna Talreja, Mansi Sood. (2009). *A Website Recommender System based on Analysis of Users Access log*, in Journal of Intelligent Systems (JIS), Special Issue on Recent Advances in Artificial Intelligence, Walter De Gruyter GmbH, 18(4), 333 – 352, ISSN: 0334 – 1860  
(WoS, Scopus indexed) (Year: 2019, CiteScore: 2.0, SNIP: 0.557, SJR: 0.201)
21. Punam Bedi, Ravish Sharma, Harmeet Kaur. (2009). *Recommender System based on Collaborative Behavior of Ants*, in Journal of Artificial Intelligence, Asian Network for Scientific Information, 2(2), 40 – 55, ISSN: 1994 – 5450  
(Scopus indexed) (Year: 2019, SNIP: 0.737, SJR: 0.134)
22. Punam Bedi, Harmeet Kaur. (2006). *Trust based Personalized Recommender System*, INFOCOM Journal of Computer Science, 5(1), 19 – 26, ISSN: 1807 – 4545  
(Inspec indexed)

### **Conference Publications**

1. Pratibha Yadav, Shweta Tyagi, Harmeet Kaur. (2023). *Integrating Transitivity in Collaborative Filtering-Based Recommender System*. Accepted in 20th India Council International Conference (INDICON) – 2023, to be held on December 14 – 17, 2023 organized by IEEE Hyderabad Section and National Institute of Technology, Warangal.

2. Musarrat Ahmed, Bhavna Gupta, Harmeet Kaur. (2023). *Language Independent Word Polarity Detection using Star Rating*. In proceedings of the 12<sup>th</sup> International Conference on Recent Trends in Information Processing & Computing (IPC – 2023), IDES and the Association of Computer Electrical Electronics and Communication Engineers (ACEECom), 23 – 24 August 2023, Bhopal, India
3. Vandana Kalra, Indu Kashyap, Harmeet Kaur. (2022). *Effect of Distance Measures on K-Nearest Neighbour Classifier*. In proceedings of the 2<sup>nd</sup> International Conference on Computer Science, Engineering and Applications (ICCSEA-2022), 8<sup>th</sup> September 2022, GIET University, Gunupur, India  
(Scopus indexed)
4. Vandana Kalra, Indu Kashyap, Harmeet Kaur. (2022). *Effect of Ensembling over K-fold Cross-Validation with Weighted K-Nearest Neighbour for Classification in Medical Domain*. In proceedings of the IEEE International Conference On Machine Learning, Big Data, Cloud And Parallel Computing: Trends, Perspectives and Prospects (Com-IT-Con-2022), 26<sup>th</sup> – 27<sup>th</sup> May 2022, Manav Rachna International Institute of Research and Studies (MRIIRS), Faridabad, India.  
(Scopus indexed)
5. Mansi Sood, Harmeet Kaur, and Jaya Gera. (2021). *Creating Domain Based Dictionary & its Evaluation using Classification Accuracy*. In proceedings of the 8<sup>th</sup> International Conference on Computing for Sustainable Global Development (INDIACom), 2021 March 17-19, Delhi, India, pp. 341–347. IEEE Xplore, ISBN: 978-1-7281-9546-9, doi: 10.1109/INDIACom51348.2021.00059.  
(Scopus indexed)
6. Mansi Sood, Harmeet Kaur, and Jaya Gera. (2020). *Information Retrieval using n-grams*. In proceedings of the 3<sup>rd</sup> International Conference on Recent Trends In Advanced Computing – Artificial Intelligence and Technology, 2020 December 17-18, Chennai, India. Lecture Notes in Electrical Engineering, vol. 806, Springer Singapore, ISSN: 1876-1100, ISBN: 978-981-16-6447-2  
(Series is Scopus Indexed)
7. Geeta Arneja, Harmeet Kaur. (2019). *Feedback Ratings are Better Indicators of User Sentiments than Whole Review*. In proceedings of the National Conference On Emerging Trends in Information Technology (NCETIT-2019), Kalindi College, University of Delhi, 1 – 2 August 2019, pp. 38 – 47.
8. Jaya Gera, Harmeet Kaur. (2018). *Influence of personality traits on campaign success*, in proceedings of 8<sup>th</sup> International conference on cloud computing, data science and engineering (CONFLUENCE 2018), Amity University, Noida, Uttar Pradesh, India, 11 – 12 January 2018, IEEE. Doi: 10.1109/CONFLUENCE.2018.8442496  
(WoS, Scopus indexed)
9. Jaya Gera, Harmeet Kaur. (2018). *Prediction Model for Crowdfunding Projects*, in proceedings of 11<sup>th</sup> International Conference on Advanced Computing & Communication Technologies (ICACCT 2018), Asia Pacific Institute of Information Technology, Panipat, Haryana, India, 17-18 February 2018, pp. 97 – 107. Advances in Intelligent Systems and Computing (AISC Series), vol. – 702, Springer Nature, ISSN: 2194-5357, ISBN: 978-981-13-0680-8, DOI: 10.1007/978-981-13-0680-8\_10

(Series Scopus Indexed from 2005 to 2006, 2008, 2010, from 2012 to 2021)

(Year: 2019, CiteScore: 0.9, SNIP: 0.429, SJR: 0.184)

10. Jaya Gera, Harmeet Kaur. (2018). *Investigation of Parameters influencing the Success of Crowdfunded Campaigns*, in proceedings of International Conference on Applications of Computing and Communication Technologies (ICACCT 2018), Shyama Prasad Mukherji College for Women, University of Delhi, 9 March 2018, Communications in Computer and Information Science (CCIS series), vol. 899, pp. 275 – 285, Springer Nature Singapore Pte Ltd., ISSN: 1865-0929, ISBN: 978-981-13-2035-4, DOI: 10.1007/978-981-13-2035-4\_24  
(WoS, Series is Scopus Indexed)  
(Year: 2019, CiteScore: 0.9, SNIP: 0.429, SJR: 0.184)
11. Harmeet Kaur, Jaya Gera. (2017). *Effect of Social Media Connectivity on Success of Crowdfunding Campaigns*, in proceedings of 5<sup>th</sup> International Conference on Information Technology and Quantitative Management (ITQM 2017), Jaypee Business School, Noida, 8 – 10 December 2017, Procedia Computer Science series, ISSN: 1877-0509, vol. 122, pp. 767-774, Elsevier, <https://doi.org/10.1016/j.procs.2017.11.435>  
(WoS, Series is Scopus Indexed)  
(Year: 2019, CiteScore: 2.5, SNIP: 1.0, SJR: 0.342)
12. Jaya Gera, Harmeet Kaur. (2017). *Recommending Investors using Association Rule Mining for Crowd Funding Projects*, in proceedings of 7<sup>th</sup> International Conference on Advances in Communication, Network, and Computing (CNC '2016), De GRUYTER, 12<sup>th</sup> March 2016, Bangluru, India.
13. Purnima Yadav, Sathenapally Shrutika, Harmeet Kaur. (2017). *Comparative Study of Sentiment Analysis Techniques and its Application on Twitter*, in proceedings of National Conference of Information Technology and Business Analytics (NCITBA '2017), Jammu, India, January 7 – 8, 2017.
14. Jaya Gera, Harmeet Kaur. (2015). *Identifying Significant Features to Improve Crowd Funded Projects' Success*, in proceedings of 3<sup>rd</sup> International Conference on Innovations in Computer Science and Engineering (ICICSE '15), Hyderabad, India, August 7-8, 2015, Springer, Innovations in Computer Science and Engineering, Advances in Intelligent Systems and Computing (AISC), vol. 413, pp. 211 – 218, ISSN 2194-5357, ISBN 978-981-10-0419-3, DOI: 10.1007/978-981-10-0419-3\_25  
(Series Scopus Indexed from 2005 to 2006, 2008, 2010, from 2012 to 2021)  
(Year: 2019, CiteScore: 0.9, SNIP: 0.429, SJR: 0.184)
15. Harmeet Kaur, Deepali Jain. (2014). *Controlled Expansion of Neighborhood in Trust Based Recommender Systems*, in proceedings of International Conference on Information and Communication Technologies (ICICT '14), Kochi, India, December 3 – 5, 2014, Procedia Computer Science (2015), ISSN: 1877-0509, Vol. 46, pp. 68-77, DOI: 10.1016/j.procs.2015.01.057 2014  
(WoS, Series is SCOPUS indexed)  
(Year: 2019, CiteScore: 2.5, SNIP: 1.0, SJR: 0.342)

16. Punam Bedi, Bhavna Gupta, Harmeet Kaur. (2012). *Predicting Attribute based User Trustworthiness for Access Control of Resources*, in proceedings of 12<sup>th</sup> International Conference on Hybrid Intelligent Systems (HIS '12), Pune, India, pp. 294 – 299, December 04-07, 2012, USA: IEEE Xplore  
(WoS, Scopus indexed)
17. Punam Bedi, Harmeet Kaur, Bhavna Gupta. (2012). *Trustworthy Service Provider Selection in Cloud Computing Environment*, in proceedings of International Conference on Communication Systems and Network Technologies (CSNT '12), Rajkot, India, pp. 714 – 719, DOI 10.1109/CSNT.2012.158, 10-14 May, 2012, USA: IEEE Xplore  
(Scopus indexed)
18. Punam Bedi, Bhavna Gupta, Harmeet Kaur. (2012). *Access Control on Grid Resources Using Radial Basis Function Neural Network*, in proceedings of 2<sup>nd</sup> International Conference on Computer, Communication, Control and Information Technology (C3IT '12), Procedia Technology 4 (2012), Elsevier, pp. 336 – 341, DOI: 10.1016/j.protcy.2012.05.051, 2012  
(WoS indexed)
19. Bhavna Gupta, Harmeet Kaur, Punam Bedi. (2011). *Predicting Grid User Trustworthiness using Neural Networks*, in proceedings of International Conference of World Congress on Information and Communication Technologies (WICT '11), Bombay, India, pp. 731 – 736, December 11-14, 2011  
(Scopus indexed)
20. Bhavna Gupta, Harmeet Kaur, Namita, Punam Bedi. (2011). *Trust based Access Control for Grid Resources*, in proceedings of International Conference on Communication Systems and Network Technologies (CSNT '11), Jammu, India, pp. 678 – 682, DOI: 10.1109/CSNT.2011.146, June 3-5, 2011, USA: IEEE Xplore  
(Scopus indexed)
21. Bhavna Gupta, Harmeet Kaur, Punam Bedi. (2009). *Trust based Personalized Ecommerce System for Farmers*, in proceedings of 4<sup>th</sup> Indian International Conference on Artificial Intelligence (IICAI '09), Tumkur (near Bangalore), India, pp. 1085 – 1093, December 16-18, 2009  
(Scopus indexed)
22. Jyotsna Talreja, Mansi Sood, Harmeet Kaur, Punam Bedi, Bhavna Gupta. (2009). *Using Web Mining to Generate Recommendations: A Website Recommender*, in proceedings of 4<sup>th</sup> Indian International Conference on Artificial Intelligence (IICAI '09), Tumkur (near Bangalore), India, pp. 333 – 349, December 16-18, 2009  
(Scopus indexed)
23. Harmeet Kaur, Deepali Jain. (2009). *Employing Experience for Updating Trust in Trust Based Recommender Systems*, in proceedings of 4<sup>th</sup> Indian International Conference on Artificial Intelligence (IICAI '09), Tumkur (near Bangalore), India, pp. 1581 – 1597, December 16-18, 2009  
(Scopus indexed)



24. Ravish Sharma, Maulein Singh, Ramneet Makkar, Harmeet Kaur, Punam Bedi. (2007). *Ant Recommender: Recommender System Inspired By Ant Colony*, in proceedings of International Conference on Advances in Computer Vision and Information Technology (ACVIT '07), Aurangabad, India, pp. 361 – 369, November 28-30,2007
25. Punam Bedi, Harmeet Kaur, Sudeep Marwaha. (2007). *Trust based Recommender System for the Semantic Web*, in proceedings of 20<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI '07), Hyderabad, India, pp. 2677 – 2682, January 9-12, 2007  
(WoS, Scopus indexed)
26. Punam Bedi, Harmeet Kaur. (2005). *Using Fuzzy Clustering to Determine Trust based Recommendations*, in proceedings of Indian International Conference on Artificial Intelligence (IICAI '05), Pune, India, pp. 2120 – 2136, December 20-22, 2005  
(Scopus indexed)
27. Punam Bedi, Harmeet Kaur. (2005). *Trust Based Recommender System*, in proceedings of International Conference on Artificial Intelligence (ICAI '05), Las Vegas, Nevada, USA, pp. 798 – 801, June 27-30, 2005  
(WoS, Scopus indexed)
28. Harmeet Kaur, Punam Bedi. (2005). *Using Fuzzy Clustering to Determine Agent Reputation*, in proceedings of International Conference on Data Mining (DMIN '05), Las Vegas, Nevada, USA, pp. 79 – 85, June 20-23, 2005  
(WoS, Scopus indexed)
29. Punam Bedi, Harmeet Kaur. (2005). *Clustering Recommendations to Compute Agent Reputation*, in proceedings of Conference on Intelligent Computing: Theory and Applications III, part of the SPIE Symposium on Defense and Security, Florida, U.S.A., pp. 131 – 137, March 28 - April 1, 2005  
(WoS, Scopus indexed)
30. Punam Bedi, Harmeet Kaur. (2004). *Modeling Agent Reputation in Uncertain Environment*, in proceedings of International Conference on Cognitive Science (ICCS '04), Allahabad, India, pp. 258 – 263, December 16-18, 2004
31. Punam Bedi, Harmeet Kaur. (2004). *Fuzzy Quantification of Trust*, in proceedings of International Conference on Cognitive Systems (ICCS '04), New Delhi, India, December 14-15, 2004
32. Punam Bedi, Harmeet Kaur, Ankit Malhotra. (2002). *Fuzzy Dimension To Databases*, in proceedings of 37<sup>th</sup> Annual Convention of Computer Society of India, 2002

### ***Book Chapters***

1. Vandana Kalra, Indu Kashyap, Harmeet Kaur. (2020). *Machine Learning and Its Application in Monitoring Diabetes Mellitus*. Chapter 12. In Bhushan Patil and Manisha Vohra (Eds.), *Handbook of Research on Engineering, Business, and Healthcare Applications of Data Science and Analytics*, pp. 228 – 288, ISBN: 978-1-7998-3054-2, Hershey, PA, USA: IGI Global
2. Punam Bedi, Bhavna Gupta, Harmeet Kaur. (2013). *A Multiagent Framework for Selection of Trustworthy Service Providers*. Chapter 15. In Sabu M. Thampi, Bharat Bhargava,

Pradeep K. Atrey (Eds.), *Managing Trust in Cyberspace*, pp. 339 – 359, ISBN (ebook): 978-1-4665-6845-7, ISBN (print): 978-1-4665-6844-0, DOI: 10.1201/b16318-16, CRC Press, Taylor & Francis Group

(WoS, Scopus indexed)

### **Research Project**

One of the Project Investigators of the innovation project HRC 307 (titled: DUA - Device for Uniquely Abled) for which the University of Delhi sanctioned a grant of Rs. 7.5 lakhs. The two other Project Investigators were Dr. Baljeet Kaur (Department of Computer Science) and Mr. Dibyajyoti Das (Department of Physics). There were 10 student members: 8 students of the Department of Computer Science and one student each of Department of Hindi and History. Duration: October 2015 - September 2016.

Some of the innovation projects were selected by the Research Council, University of Delhi, for display during the Convocation Ceremony of the University of Delhi on 19<sup>th</sup> November 2016 and DUA was one of them. It was also awarded the Best Poster Award in the same.

An article highlighting the project has been published by Electronics for You, a magazine with leading publications in the field of electronics and technology across the globe, titled "DUA: A Wish for Your Safety" in the July 15, 2016 issue. It is also available at the link <http://electronicsforu.com/india-corner/innovations-innovators/dua-wish-safety> .

### **Advisory Committee Member**

1. Preeti Marwaha, Supervisor: Dr. Hema Banati. Title: *Temporal Enhancement of Web Services*. PhD awarded in June 2013. Department of Computer Science, University of Delhi.
2. Monika Bajaj, Supervisor: Dr. Hema Banati. Title: *Targeted Product Promotion using Firefly Algorithm on Social Networks*. PhD awarded in June 2013. Department of Computer Science, University of Delhi.
3. Shikha Agarwal nee Gupta, Supervisor: Dr. Archana Singhal. Title: *Semantically Enhanced Proactive News Recommender System*. PhD awarded in October 2015. Department of Computer Science, University of Delhi.
4. Nidhi Arora, Supervisor: Dr. Hema Banati. Title: *Enhancing Group Search Optimization Algorithm for Structural Analysis of Small Scale Networks*. PhD awarded in June 2019. Department of Computer Science, University of Delhi.
5. Nisha, Supervisor: Dr. Archana Singhal. *Broad Area – Information Security*. Registered since November 2018. Department of Computer Science, University of Delhi.
6. Seema, Supervisor: Dr. Hema Banati. *Broad Area – Analysis of Social Networks*. Registered since December 2019. Department of Computer Science, University of Delhi.
7. Asha Yadav, Supervisor: Dr. Hema Banati. *Broad Area – Web Content Mining*. Registered since December 2019. Department of Computer Science, University of Delhi.
8. Aarti Goel, Supervisor: Dr. Archana Singhal. *Broad Area – Artificial Intelligence*. Registered since February 2022. Department of Computer Science, University of Delhi.
9. Vandita Grover, Supervisor: Dr. Hema Banati. *Broad Area – Sentiment Analysis*. Registered since February 2022. Department of Computer Science, University of Delhi.

### **Resource Person in Workshops / Lectures Delivered**

1. Resource person for 2 Sessions on 'Database Management and Information Retrieval' for the Computer Science Teachers of Delhi Public Schools held on September 23, 2023 during the In-person Programme in Computer Science, which was organised by the Human Resource Development Centre, The Delhi Public School Society from 21 – 24 September 2023.
2. Resource person for 2 Sessions in One-Week Online National Faculty Development Program “OFDP-102: Python: Essentials, Programming and Analytics”, from 27<sup>th</sup> October to 3<sup>rd</sup> November 2022, jointly organized by University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education.
3. Resource person in workshop on Value Addition Course titled “Digital Empowerment”, conducted by Value Addition Courses Committee (University of Delhi) in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College on 19<sup>th</sup> October 2022 in the New Seminar Hall, Hansraj College, University of Delhi
4. Delivered a two hour lecture on "Basics Programming Skills on Python" on 8<sup>th</sup> September 2020. Held as a part of one week Online Workshop on “Machine Learning and Data Analytics Bootcamp” in collaboration with Computer Society of India (CSI) from 7<sup>th</sup> September to 12<sup>th</sup> September 2020 conducted by Department of Computer Science and Engineering, Faculty of Engineering and Technology, Manav Rachna International Institute of Research and Technology, Faridabad.
5. Delivered a one hour lecture on “Fuzzy Inferencing and Its Applications” on 21<sup>st</sup> January 2010. Held as a part of the Technical Session in one day seminar on “An Innovative Approach Towards Cutting Edge Technologies”, Technophilia – 2010. Conducted by Department of Information Technology and Department of Computer Science & Engineering, Northern India Engineering College (Affiliated to Guru Gobind Singh Indraprastha University), Shastri Park, New Delhi – 110053
6. Delivered a two and half an hour lecture on “Recommender Systems” on 20<sup>th</sup> December 2010 held as a part of Winter School on “Development of Expert Systems in Agriculture” (2 - 22 December 2010) at Division Of Computer Applications, Indian Agricultural Statistics Research Institute, Library Avenue, Pusa, New Delhi – 110012. Winter school is similar to the refresher course held in University of Delhi.

### **Administrative Responsibilities in the College**

1. Time-table Committee Convener (Arts) for the session 2003 – 2004
2. Superintendent of Annual Examinations for the year 2008
3. Science Admissions Convener for the year 2013, 2019
4. Special Categories Admissions Enabling Committee Convener for the year 2023
5. Computer Science Department Admission-in-charge for the admissions done in 2000, 2001, 2002, 2003, 2004, 2007, 2008, 2010, 2012, 2014, 2016

6. Teacher-in-Charge for the sessions 2001 – 2002, 2002 – 2003, 2007 – 2008, 2010 – 2011, 2012 – 2013, 2015 – 2016, 2019 – 2020, 2023 – 2024
7. Superintendent of Practical Examinations of the Computer Science Department for the sessions 2001 – 2002, 2002 – 2003, 2007 – 2008, 2010 – 2011, 2012 – 2013, 2015 – 2016, 2019 – 2020
8. Hostel Committee member for the sessions 2001 – 2002, 2002 – 2003, 2010 – 2011
9. Library Committee member for the sessions 2001 – 2002, 2002 – 2003, 2010 – 2011, 2012 – 2013, 2014 – 2015, 2016 – 2017, 2017 – 2018, 2019 – 2020, 2020 – 2021, 2021 – 2022, 2022 – 2023
10. Sports Committee member for the sessions 2001 – 2002, 2002 – 2003, 2007 – 2008, 2010 – 2011
11. Portal Committee member for the sessions 2013 – 2014, 2015 – 2016, 2016 – 2017
12. Discipline Committee member for the session 2012 – 2013, 2015 – 2016, 2018 – 2019
13. Monitoring Committee member for the session 2015 – 2016
14. Workload Committee member for the sessions 2012 – 2013, 2015 – 2016, 2019 – 2020, 2022 – 2023, 2023 – 2024
15. Central Purchase Committee member for the session 2015 – 2016, 2019 – 2020, 2021 – 2022, 2023 – 2024
16. Students' Advisory Committee for the session 2015 – 2016
17. Garden Committee member for the session 2016 – 2017
18. Finance Committee member for the session 2018 – 2019, 2019 – 2020
19. Provident Fund Committee member for the session 2020 – 2021
20. Department Coordinator for compilation data of NAAC, NIRF and other related rankings for the session 2015 – 2016, 2021 – 2022, 2022 – 2023, 2023 – 2024