Title	**Dr.**	First Name	**Akanksha Bansal**	Last Name	**Chopra**	

Designation	Assistant Professor
Department	Computer Science
Address (Campus)	Shyama Prasad Mukherji College for Women 57, North Ave, West Punjabi Bagh, Punjabi Bagh, Delhi, 110026
Phone Number(Campus)	011 2522 4499
Fax	
Email	akanksha@spm.du.ac.in
Education	PhD, Mhil, MCA, B.Sc (Hons) Statistics, UGC-NET

Subject	Institution	Details
PhD in Computer Science	University of Delhi.	
M.Phil in Computer Science	The Global Open University, Nagaland	First division with Distinction
MCA	Apeejay School of Management (Guru Gobind Singh Indraprastha University)	First division with Distinction.
B.Sc(Hons) Statistics	Sri Venkateswara College (University of Delhi)	First division.

Research Interests/ Specialization
Recommender Systems, Information Security, Computer Graphics, Computer Architecture

Teaching Experience
16 Years

Publications:

Research Papers in Journals

1. Akanksha Bansal Chopra, Monika Arora, & Lavkush Gupta. (2023). A COMPARATIVE STUDY ON SWARM INTELLIGENCE ALGORITHMS. International Education and Research Journal (IERJ), 9(5), pp. 1 - 4. E-ISSN No : 2454-991 Retrieved from http://ierj.in/journal/index.php/ierj/article/view/2753

2. Dixit, V. S., & Chopra, A. B. (2023). Push and nuke attacks detection using DNN-HHO algorithm. International Journal of Information and Computer Security, 20(3-4), 248-268. DOI: 10.1504/IJICS.2022.10040154
   (Publisher: Inderscience; Index: SCOPUS; SNIP: 0.532; ISSN No. 1744-1765)

3. Chopra, A.B. and Dixit, V.S. (2023). "Detecting biased ratings in Collaborative Recommender Systems using Opinion Mining". *Journal of Intelligent Systems*, *31*(1), 1-13.
   (Publisher: Walter de Gruyter; ISSN: 2191-026X; Index: **SCOPUS**; ESCI; Impact Score: 2.16; SNIP: 0.732)

4. Ara, Zinat and Chopra, A.B. (2022) "Justice Theory Model for an Ideal State of Plato and Aristotle". Contemporary Social Sciences. Vol. 31, No. 3, pp. 1 -12.
   (Peer Reviewed, ISSN 0302-9298)

5. Chopra, A. B., & Dixit, V. S. (2022). An adaptive RNN algorithm to detect shilling attacks for online products in hybrid recommender system. *Journal of Intelligent Systems*, *31*(1), 1133-1149
   (Publisher: Walter de Gruyter; ISSN: 2191-026X; Index: **SCOPUS**; ESCI; Impact Score: 2.16; SNIP: 0.732)

6. Dixit, V.S. and Chopra, A.B. (2021). "Opinion mining-based secured Collaborative Recommender System". International Journal of Computational Intelligence Studies, Vol. 10, No. 4, pp.239–257.
   (Publisher: Inderscience; Index: UGC CARE List 1; ISSN No. 1755-4977)

7. Ara, Zinat and Chopra, A.B. (2019). "An Empirical Study on the idea of an Ideal state by Plato and Aristotle". International Journal of Research and analytical Reviews. Vol. 6, Issue 2, pp. 765 – 772.
   (Peer Reviewed, E-ISSN 2348-1269, P-ISSN 2349-5138)

8. Akanksha Bansal Chopra, Manisha Vashisth, Anchal Dua, Divya Singal & Sneha Bharti,"An Algorithm to Develop Time Table Tabling Schedule and Management System Software using Heuristic Approach", Vol. 8 Issue 6(1), June 2018, ISSN: 2249-0558 Impact Factor: 7.119 Journal Homepage: http://www.ijmra.us, Email: editorijmie@gmail.com Double-Blind Peer Reviewed Refereed Open Access International Journal - Included in the International Serial Directories Indexed & Listed at: Ulrich's Periodicals Directory ©, U.S.A., Open J-Gage as well as in Cabell's Directories of Publishing Opportunities, U.S.A

9. Arora, Monika, Akanksha Bansal Chopra , "IMPACT OF ONLINE SELLING ON PHYSICAL RETAIL IN INDIA "International Journal of Research & Development in Technology and Management Science –Kailash Volume - 22| Issue 6 | 2016 | pgs. 57 – 68 | ISBN - 1-63102-468-X European Article Number [EAN] - 978-1-63-102468-9.

10. Chopra, Akanksha Bansal, Deepak Chopra, Manvi Gupta, " TIME TABLE GENERATION USING GENETIC ALGORITHM", International Journal of Research & Development in Technology and Management Science –Kailash, Volume - 22| Issue 6 | 2016 |pgs. 1-8| ISBN - 1-63102-468-X , European Article Number [EAN] - 978-1-63-102468-9.

11. Chopra, Akanksha Bansal, sonia Pahuja, Pooja Sharma, "A Comprehensive study on intranet portals of various organizations", International Journal of Multidiciplinary Consortium, Vol. 3, Issue 3, 2016, pgs. 30 – 44 , ISSN 2349-073X.

12. Chopra,Akanksha Bansal, Ethical & Penetration Testing: An Overview, International Journal of Multidisciplinary Consortium, June 2014, Volume 1, Issue 1,pgs 1-8, ISSN: 2349-073X

13. Chopra, Akanksha Bansal, Hacking – A Challenge to Information Security, International Journal of Management IT and Engineering, April 2013, Volume 3, Issue 4, pg. 195-204, ISSN: 2249-0558

14. Bansal,Akanksha, Monika Arora, Ethical Hacking and Social Security, Radix International Journal of Research in Social Science, November 2012, Volume 1, Issue 11, Pg. 1-16, ISSN: 2250-3994

Participation in International Conferences/Workshops:

1. Chopra A.B., Dixit V.S. (2020). Balanced Accuracy of Collaborative Recommender System. In: ICT Systems and Sustainability. Advances in Intelligent Systems and Computing, vol 1270. Springer, Singapore. https://doi.org/10.1007/978-981-15-8289-9_32 (ISBN: 978-981-15-8289-9)
(Publisher: Springer; ISSN: 2194-5357; Index: **SCOPUS**; SNIP: 0.428) (Presented)

2. Chopra A.B., Dixit V.S. (2019). Performance Analysis of Collaborative Recommender System: A Heuristic Approach. In: Information, Communication and Computing Technology. ICICCT 2019. Communications in Computer and Information Science, vol 1025. Springer, Singapore. https://doi.org/10.1007 /978-981-15-1384-8_15 (ISBN:978-981-15-1384-8)
(Publisher: Springer; ISSN: 1865-929; Index: **SCOPUS**; SNIP: 0.32) (Presented)

3. Arora, M., Chopra, A.B., Dixit, V.S. (2019). An Approach to Secure Collaborative Recommender System Using Artificial Intelligence, Deep Learning, and Blockchain. In: Choudhury, S., Mishra, R., Mishra, R., Kumar, A. (eds) Intelligent Communication, Control and Devices. Advances in Intelligent Systems and Computing, Vol 989. Springer, Singapore. https://doi.org/10.1007/978-981-13-8618-3_51 (ISBN: 978-981-

13-8618-3)
(Publisher: Springer; ISSN: 2194-5357; Index: **SCOPUS**; SNIP: 0.428) (Presented)

4. Chopra, Akanksha Bansal, Monika Arora, " Green Technology: A Sustainable Development",2nd International conference on Conjugative Management, Library Information Science, Social Science and Technology for Virtual World, January 2017, pg. 9-13, ISBN – 978-1-63535-633-5. (Presented)

5. Gupta,Manvi, Akanksha Bansal Chopra,"Ubiquitous Computing:Aura and its spectrum", 2nd International conference on Conjugative Management, Library Information Science, Social Science and Technology for Virtual World, January 2017, pg. 340-343, ISBN – 978-1-63535-633-5.

6. Pahuja, Sonia, Pooja Sharma, Akanksha Bansal Chopra, " Intranet Portal and its security issues", 2nd International conference on Conjugative Management, Library Information Science, Social Science and Technology for Virtual World, January 2017,pg. 308-316, ISBN – 978-1-63535-633-5.

7. Chopra, Akanksha Bansal, A Study on Implications and Security Issues of Social Networking Sites, National Conference on Innovative Practices in Information Technology and Operations Management (Innovations-2014), January 2014, Pg. 138-145, ISBN: 978-81-906991-9-7

Workshops:

1. Successfully completed 4-Week Faculty Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" from 02 – 31 December, 2023 conducted by Teaching Learning Centre, Ramanujan College (University of Delhi) under the aegis of Ministry of Human Resource Development Pandit Madan Mohan Malaviya Mission on Teachers and Teaching with Grade A+.

2. Successfully completed Two week Refresher Course in "Mathematical Sciences (Theme: Foundation Course in Vedic Mathematics)" from 1st September to 14th September 2023 conducted by Teaching Learning Centre & Department of Mathematics, Ramanujan College (University of Delhi) in collaboration with Department of Mathematics, Sri Jayachamarajendra College of Engineering (SJCE), JSS Science and Technology University (JSSS & TU), Mysuru, under the aegis of Ministry of Human Resource Development Pandit Madan Mohan Malaviya Mission on Teachers and Teaching with **A+** grade.

3. Participated in One Day Seminar on "IPR: Fundamentals and Challenges in Global World" organized by Shyama Prasad Mukherji College for Women IQAC in collaboration with GIIP held on 9th December 2022.

4. Co-Convenor of workshop on "Life Skills" held on 2nd November 2022 at SPM College

5. Co-convenor of Poster Making Workshop held in online mode at Shyama Prasad Mukherji College in September 2022

6. Successfully completed Two week Faculty Development Programme on "Social Sciences and Humanities: An Interdisciplinary approach in Teaching, Learning and Research" from **22nd July – 5th August 2022**, conducted by Teaching Learning Centre, Ramanujan College (University of Delhi) in collaboration with Shyama Prasad Mukherji College for Women (University of Delhi) under the aegis of Ministry of Human Resource Development Pandit Madan Mohan Malaviya Mission on Teachers and Teaching with **A** grade.

7. Successfully completed four week Orientation Programme for "Faculty in University/Colleges/Institutes of Higher Education" from **20th April – 19th May 2022**, organized and conducted by Teaching Learning Centre, Ramanujan College (University of Delhi) under the aegis of Ministry of education Pandit Madan Mohan Malaviya Mission on Teachers and Teaching with **A+** grade.

8. Successfully completed Two week Interdisciplinary Bilingual Refresher Course on "Re-Defining Ethics in the Era of Digitization: From Theory to Practice" from **22nd March – 5th April 2022**, conducted by Teaching Learning Centre, Ramanujan College (University of Delhi) under the aegis of Ministry of education Pandit Madan Mohan Malaviya Mission on Teachers and Teaching with **A+** grade.

9. Organizing member of UGC sponsored National Seminar on Artificial Intelligence: Next Generation of Computing", held on 11th – 12th March 2022 at Shyama Prasad Mukherji College.

10. **Convenor** of Webinar "STOMP OUT ANTs" held on 25th September 2021 at Shyama Prasad Mukherji College.

11. Participated in International E-Conclave on "Cloud Computing: The Next Level of Digital Transformation", held on 20 th November 2021 at Shyama Prasad Mukherji College.

12. Organizing member of UGC sponsored National Seminar on Applications of Mathematics in Social Sciences, held on 3rd – 4th March 2022 at Shyama Prasad Mukherji College.

13. Participated in National Seminar on "Sanskrit Vadamya Mein Nadiya: Sanskritik avam Bhugolik pariprekshya" organized by Shyama Prasad Mukherji College and IQAC held on 17th – 18th December 2021.

14. FDP on Microsoft Teams organised by Shyama Prasad Mukherji College (University of Delhi) in August 2020.

15. Contibuted as Local Managements and Hospitality Chair in Organising Committee at the International Conference on Applications of Computing and Communication Technologies (ICACCT-2018) held at Shyama Prasad Mukherji College (University of Delhi) in March 2018.

16. Participated in Workshop on "LaTex" held at University of Delhi in September 2017.

17. Participated in Workshop on "Research Metrics" held at University of Delhi in February 2015.

18. Participated in Faculty development Programme on "Data Mining and Big Data analytics: Concepts, Techniques, Tools and Research Directions" held at Delhi Institute of Advanced Studies in June 2014.

19. Participated in "Ethical Hacking and Cyber Crime" workshop organized by i3indya held at Shyama Prasad Mukherji College, University of Delhi in February 2014.

20. Attended Seminar "Data Storage and Retrieval: The State of Being " held at Apeejay School of

Management in 2007.

21. Attended & hosted the Seminar "Latest IT Trends and Technologies" held at Apeejay School of Management in 2006.

22. Attended Seventh Annual Conference of Society of Statistics, Computer and Applications held at Sri Venkateswara College in 2005.

Awards/ Recognition

1. Authored book "Detection of Shilling Attacks in Recommender Systems" (ISBN: 978-93-5747-127-5)

2. Developed Time table software for Shyama Prasad Mukherji College (University of Delhi) in 2016 (running successfully)

3. Lifetime Professional member of Institute of Scholars.

4. Reviewer of International Journal of Computer Science & Information Technology.

5. Awarded with Young Researcher Award 2021 for research paper with title "Balanced Accuracy of Collaborative Recommender Systems"

Other Responsibilities:

1. Member, **Admission Committee** (B. A. Program) for the Academic year 2018 – 2019

2. Member, **Admission Committee** for the Academic years – 2019-2020; 2020 – 2021; 2021 – 2022; 2022-23; 2023 -24

3. Member, **Attendance Committee** for the Academic years – 2018 – 2019 ; 2019- 2020; 2022-23

4. Member, **Sports Day Committee** for the academic Year – 2019- 2020 and 2021-2022

5. Member, **College Website Committee** for the Academic Year 2021 – 2022; 2022 - 23

6. Member, **Anti Ragging Committee** for the Academic Year 2020 – 2021

7. Member, **Examinations Committee** for the Academic Year 2021 – 2023

8. Member, Alumini Committee for the Academic year 2021-22; 2022 -23

9. Convener, Time table Committee for the Academic Session 2024-25