

Dr. Manju

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Objective

To pursue a challenging career, improve learning skills and knowledge of myself and others to the best possible extent and to grow professionally with your organization.

Academia:

- Pursuing Post Graduate Diploma in Intellectual Property Rights (PGDIPR) from IGNOU (Result Awaited) .
- Completed **Doctor of Philosophy (Computer Science and Technology)** from Jawaharlal Nehru University, New Delhi (Awarded 2013) under the Guidance of **Prof (Dr.) R. K. Agrawal**.
- Completed **Master of Technology (Computer Science and Technology)** from Jawaharlal Nehru University, New Delhi (Session 2007-2009) and securing **CGPA 8.12 (86.2 percent)**.
- Completed **Master of Computer Applications** from Kurukshetra University, Kurukshetra (Lateral entry) secured **74.2 Percent**.
- Completed **Master of Computer Science (software)** from Kurukshetra University, Kurukshetra (1999-2001) secured **76.1 Percent**.
- Completed **Bachelor of Science (Computer Science)** from Kurukshetra University, Kurukshetra (1996-1999) secured **80 Percent**.
- Passed **Senior Secondary** schooling from Dayal Singh Public School, Karnal (1996) secured **72.8 percent**.
- **Matric** from S.D. Girls Sr. Sec. School, Karnal in 1994 secured **77.3 percent**.

Thesis: Doctor of Philosophy thesis on the topic “**Finding a Minimal Subset of Relevant Genes for Cancer Microarray Classification**” under the guidance of **Prof.(Dr.) R. K. Agrawal**.

Dissertation: Master of Technology dissertation on the topic “**A Comparative Study of Biclustering Algorithms using Microarray Datasets**” under the guidance of **Prof.(Dr.) R. K. Agrawal**.

Publications:

- 1 Manju Sardana, R.K.Agrawal, Baljeet Kaur. A hybrid of clustering and quantum genetic algorithm for relevant genes selection for cancer microarray data. 2016, International Journal of Knowledge-based and Intelligent Engineering Systems, 20(3), 161-173. doi 10.3233/KES-160341
- 2 Manju Sardana, R.K.Agrawal, Baljeet Kaur, An Incremental Feature Selection approach based on Scatter Matrices for Classification of Cancer Microarray data. 2014, International Journal of Computer and Mathematics. Taylor and Francis. I.F- 0.542. Volume 92, Number 2, 1 February 2015, pp. 277-295(19). DOI: 10.1080/00207160.2014.905680
- 3 Manju Sardana, R.K.Agrawal, Baljeet Kaur, Clustering in conjunction with Quantum Genetic Algorithm for relevant gene selection for cancer microarray data. In proceedings PAKDD-BDM 2013. LNCS 7867, pp 428-439, **ISBN: 978-3-642-40318-7** (Print).DOI: [10.1007/978-3-642-40319-4_37](https://doi.org/10.1007/978-3-642-40319-4_37)
- 4 Manju Sardana, Baljeet Kaur, R.K.Agrawal, Performance evaluation of ranking methods for relevant gene selection in

cancer microarray datasets. In proceedings MICAI 2012, LNAI vol. 7629, 2013, pp 407-418, Springer **ISBN: 978-3-642-37806-5**(Print). DOI: [10.1007/978-3-642-37807-2_35](https://doi.org/10.1007/978-3-642-37807-2_35)

- 5 Manju Sardana, R.K. Agrawal, A comparative study of clustering methods for relevant gene selection in microarray data. In proceedings: ICCSEA, 2012. Advances in Computer Science Engineering and Applications (2012) Advances In intelligent and Soft Computing. Vol. 166, pp 789-797, Springer, **ISBN 978-3-642-30156-8** (Print) DOI 10.1007/978-3-642-30157-5_78
- 6 Rajni Bala, R.K. Agrawal, Manju Sardana, Relevant gene selection using normalized cut clustering with maximal compression similarity measure. In proceedings: PAKDD, 2010. Advances in Knowledge Discovery and Data Mining (2010). LNAI vol. 6119, pp81-88, Springer, **ISBN 978-3-642-13671-9** (Print). DOI: 10.1007/978-3-642-13672-6_9

Achievements:

- Qualified UGC-NET June, 2012.
- Passed M.Sc.(Computer Science) with Distinction.
- Won Scholarship in B.Sc.(Comp Sc.).
- Won Scholarship in Matric.

Experience:

- Working as Assistant Professor (Ad-hoc) Computer Science in Hans Raj College, Delhi from 1 Aug., 2014 to till Date.
- Worked as Assistant Professor (Ad-hoc) Computer Science in Keshav Mahavidyalaya, Pitampura, Delhi from 8 Jan., 2014 to 22 May, 2014.
- Worked as Assistant Professor (Ad-hoc) Computer Science in Swami Shradhanand College, Alipur (Delhi) from 17 Sept., 2013 to 15 Dec., 2013.
- Worked as lecturer Computer Science in GVM Institute of Technology and Management, Sonipat from 24 June, 2005 to 11 Aug, 2007.
- Worked as lecturer Computer Science in Hindu College, Sonipat from 22 July, 2003 to 31May, 2005.
- Worked as lecturer Computer Science in Dyal Singh College, Karnal from 01 Aug., 2002 to 30 Apr., 2003.
- Worked as lecturer Computer Science in Shah Satnam ji Girls College, Sirsa from 02 July, 2001 to 21June, 2002 and 01 July,2002 to 31 July 2002.

Conferences/Workshops/FDPs:

- Successfully Completed 4-Week Induction/Orientation Programme for “Faculty in Universities /Colleges/Institutes of Higher Education” from 20 May– 18 June, 2022 organized by Teaching Learning Centre, Ramanujan College University of Delhi.
- Participated in one Week Faculty Development Programme on “Digital Image Processing and Analysis: Applications with Practicals” from 25th April to 30th April, 2022 organised by Department of Computer Science Shaheed Sukhdev College of Business Studies, University of Delhi.
- Successfully completed 12-weeks course on Data Analytics with python from Jan,2022 to Apr,2022 conducted by NPTEL.
- Participated in Ninth International Conference on Big Data Analytics (BDA) 2021, organized by IIIT, Allahabad from during15-18 Dec., 2021..

- Participated in ACM COMPUTE 2021, 14th Annual Conference organized by Department of Computer Science, University of Delhi from Nov 18 - Nov 20 2021.
- Organizing member in One week(online) Interdisciplinary Faculty Development Programme on “Data Science and Machine Learning using Python” from 24 Sep - 30 Sep 2021 organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi.
- Participated in National Level online FDP Business 4.0 Embracing Digital Technology from 6 July, 2020 to 10 July, 2020 organized by Skill Faculty of Engineering and Technology and WeGrow Technology.
- Participated in online FDP on Advanced Optimization Techniques from 13 July 2020 to 24 July 2020 organized by Electronic and ICT Academy, MNIT, Jaipur.
- Resource person for INSPIRE programme (DST) held at Hansraj College, University of Delhi from 12 December 2017 to 16 December 2017.
- Resource person for 'Workshop on Python: Fundamentals and Advanced' held on Jan 21, 2017 and Feb 4, 2017 organized by Department of Computer Science and IQAC, Hansraj College, University of Delhi.
- Program Committee for the seminar on Cyber Security in Cloud Computing and Social Networking held on Jan 12, 2017 organized by Department of Computer Science, Hansraj College, University of Delhi.
- International Workshop on Cloud Computing held on Dec 22-23, 2016 organized by School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi.
- Faculty development Programme on Latest Trends and Research in Machine Learning 12-17 Dec., 2016 held at BVIMR Campus, Paschim vihar, New Delhi.
- International Workshop on Big Data analytics held on March 30, 2016 organized by School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi.
- International Conference on Big Data analytics held on 24-26 Dec 2012 at India international centre, New Delhi organized by Delhi University.
- Author Workshop on “How to write for and Get Published in Scientific Journals and Publish manuscripts” held on Aug 27, 2012 conducted by Springer and Edanz and JNU.
- International Conference on Methods and Models held on Dec 13-14, 2010, at JNU, New Delhi organized by Jawaharlal Nehru University.
- Data Analytics and Operations Research Workshop held on Oct 29-30, 2010, at IIT, New Delhi organized by IBM-Research India.
- International Conference on Methods and Models held on Dec 13-14, 2009, at JNU, New Delhi organized by Jawaharlal Nehru University.
- Workshop on Information Technology for Teachers held on Jan 7, 2006 organized by Department of Computer Science and Applications, M.D. University, Rohtak.

Computer skills:

Languages : C, C++ , Python, Visual Basic, MATLAB, FORTRAN, Pascal and COBOL.

Platforms : DOS, Windows-X.

Miscellaneous : Discrete Mathematics, Operating System, Computer Architecture, RDBMS, Data

Structures, Computer Networks, Digital Fundamentals.

Research Areas:

Data Mining

Pattern Recognition

Personal Dossier:

Mailing & permanent Address: Manju Sardana, 409/29 Dev Nagar, Street no. 3, Sonipat (Haryana)

Father's name: Shri Ramesh Chander (Retd. S.D.E.)

Mother's name: Smt. Shakuntla Devi (Retd. Math Mistress)

Husband's name Mr. Sanjeev Sardana(Adv.)

Date of birth: 12 Mar. 1979.

Nationality: Indian

Religion: Hindu

Marital status: Married

Languages known: English, Hindi & Punjabi.

References: On request.

Date:

Place:

Dr. Manju