Faculty Profile

Faculty Name	Dr. Gurpreet Singh Bhamra
Designation	Associate Professor
Qualification	MCA, Ph.D.
Email	gurpreetbhamra.dca@piet.co.in
Area of Interest	Data Science, Artificial Intelligence, Machine Learning
Work Experience (Total)	
• Teaching	23 years
• Research	15 years
• Industry	0.10 years
• Others	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Computer Fundamentals and Programming in C, Object Oriented Programming with C++, Python Programming, R Programming, Java Programming, Mobile Apps Development using Android, Linux and Shell programming, Computer Oriented Optimization Techniques, Web Technologies, Data Structures, Data Warehouse and Data Mining, Design and Analysis of Algorithm
Membership of Professional Bodies	Computer Society of India (CSI)
Research Publications	12
• Research Papers UGC-CARE	01
• Research Papers SCOPUS	
• Research Papers WoS/SCI/ABDC	
• List of Publications	

- Anil and Gurpreet S. Bhamra, Simulation of Association Learning in Biological Data Using Apriori Algorithm, *International Journal of Management, IT & Engineering,* vol. 9, issue 3(2), pp 109-118, March 2019, ISSN 2249-0558
- Anil and Gurpreet S. Bhamra, A Review of Association Learning in Biological Data, *International Journal of Management, IT & Engineering,* vol. 9, issue 1(2), pp 1-9, January 2019, ISSN 2249-0558
- Gurpreet S. Bhamra, Anil K. Verma, and Ram B. Patel, A Serial Computing Model of agent enabled Mining of Globally Strong Association Rules, *International Journal on Computational Science & Applications*, vol. 5, issue 3, pp 77-104, June 2015, ISSN: 2200-0011

- Gurpreet S. Bhamra, Anil K. Verma, and Ram B. Patel. Agent enabled Mining of Distributed Protein Data Banks, *International Journal in Foundations of Computer Science & Technology,* vol. 5, issue 3, pp 25-45, May 2015, ISSN: 1839-7662
- Gurpreet S. Bhamra, Anil K. Verma, and Ram B. Patel. A Parallel Computing Model of agent enabled Mining of Globally Strong Association Rules, *International Journal of Artificial Intelligence & Knowledge Discovery,* vol. 5, issue 2, pp 17-30, April 2015, ISSN: 2231-2021,
- Bhamra, G. S., Patel, R. B. and Verma, A. K., Agent Based Frameworks for Distributed Association Rule Mining: An Analysis, *International Journal in Foundations of Computer Science & Technology,* vol. 5, issue 1, pp 11-22, January 2015, ISSN: 1839-7662, doi: 10.5121/ijfcst.2015.5102
- Bhamra, G. S., Patel, R. B. and Verma, A. K., Agent Technology in Bioinformatics: A Review, *International Journal of Next-Generation Computing*, vol. 5, issue 2, pp 176-189, July 2014**,** ISSN: 2229-4678, indexed in: UGC-CARE List 1, doi: 10.47164/ijngc.v5i2.66
- Dhuppar, Ranjana and Bhamra, G. S., Protein Databank Filtering and Amino Acid Frequency Calculator (PFA2FC): A Tool, *International Journal of Computer Applications*, vol, 98, iuuse 10, pp 1-3, July 2014, ISSN: 0975- 8887, doi**:** 10.5120/17216-7446
- Bhamra, G. S., Patel, R. B. and Verma, A. K., An Investigation into the Central Data Warehouse based Association Rule Mining, International Journal of Computer Applications, vol. 96, issue 10, pp 1-12, June 2014, ISSN: 0975- 8887**,** doi**:** 10.5120/16827-6592
- Bhamra, G. S., Patel, R. B. and Verma, A. K., Intelligent Software Agent Technology: An Overview, *International Journal of Computer Applications*, vol. 89, issue 2, pp 19-31, March 2014, ISSN: 0975- 8887, doi:10.5120/15474-4160
- Bhamra, G. S., Verma, A. K. and Patel, R.B., TDSGenerator: A Tool for generating synthetic Transactional Datasets for Association Rules Mining, *International Journal of Computer Science Issues,* vol. 8, issue 2, pp 184-188, March 2011**,** ISSN: 1694-0814
- Bhamra G.S., Verma A.K. and Patel R.B., Extracting patterns from the Distributed Data Sources in Open Networks: An Agent Approach, *International Journal of Systemics, Cybernetics and Informatics*, vol. 3, issue 3, pp 67-74, July 2008**,** ISSN: 0973-4864

Book and Chapter Publications	
- Books Authored published by International Publishers	
- Books Authored published by National Publishers	
- Publication of Chapter in Edited Books	01
- Editor of Book by International Publishers	
- Editor of Book by National Publishers	

• Translation Work of Book	
• List of Book and Chapter Publications	
• Bhamra, G.S., Patel, R.B., Verma, A.K., Agent enriched Distributed Association Rules Mining: A Review, In Longbing Cao, Ana A.C. Bazzan, Andreas L. Symeonidis, Vladimir I. Gorodetsky, Gerhard Weiss, Philip S. Yu (Eds.), *Agents and Data Mining Interaction, 7th International Workshop, ADMI 2011,* May 2-6, 2011, Taipei, Taiwan, Lecture Notes in Computer Science (Lecture Notes in Artificial Intelligence), *vol.* 7103, pp 30-45, Springer Berlin -Heidelberg ISBN: 978-3-642-27609-5, doi**:** 10.1007/978-3-642-27609-5_4	
Patents	
• Published	
• List of published patent(s)	
• Filed	
• List of filed patent(s)	
PhD Guidance	
• Degree Awarded	
• Thesis Submitted	
M.Tech. Guidance	
• Degree Awarded	02
• Thesis Submitted	
Research Project	
• List of Research project	
Consultancy	
• List of Consultancy	
Awards & Honours	
• List of Awards & Honours	
• Certified for attending One week AICTE Recognized Faculty Development Programme on OpenCV for Image and Video Processing Applications conducted by Computer Science and Engineering Department, NITTTR, Chandigarh on July 22-26, 2024. • Certified for attending Five Days Faculty Development Programme on Modern Data Science, Machine Learning and Cyber Security Strategies (MDSMLCS) conducted by Department of Computer Science and Engineering (AI&DS) in association with Innove Intellects LLP at PIET, Samalkha on July 15-17, 2024. • Certified for attending One week AICTE Recognized Faculty Development Programme on Curriculum Development aligned with NEP 2020 conducted by Curriculum	

Development Centre Department, NITTTR, Chandigarh on July 01-05, 2024.

- Certified for attending Three days online Faculty Development Programme on Data Analysis using R-studio conducted by Research Education Solutions in association with NIIS Institute of Business Administration, Bhubaneshwar, Odisha on June 15-17, 2024.
- Certified for attending Seven Days National Level online Faculty Development Program on ChatGPT & AI Tools for Educators conducted by Marian College Kuttikkanam, Kerala and Kerala State Higher Education Council on June 14-21, 2023.
- Certified for successfully completing online course "Advanced Learning Algorithms" by DeepLearning.AI and Stanford University at Coursera on June 30, 2022.
- Certified for successfully completing online course "Suprevised Machine Learning: Regression and Classification" by DeepLearning.AI and Stanford University at Coursera on June 18, 2022
- Certified for successfully completing online course "Improving Deep Neural Networks: Hyperparameter Turning, Regularization and Optimization" by DeepLearning.AI and Stanford University at Coursera on June 12, 2022
- Certified for successfully completing online course "Neural Networks and Deep Learning" by DeepLearning.AI and Stanford University at Coursera on June 4, 2022
- Certified for successfully completing online course "R Programming A-Z: R for Data Science With Real Exercises" at Udemy on May 11, 2022
- Certified for attending Seven Days online workshop on "Quality Assurance in Higher Education Institutions: Challenges Ahead" conducted by Internal Quality Assurance Cell, Chaudhary Ranbir Singh University, Jind on Nov. 23-29, 2021
- Certified for attending Three Days online Workshop on "Intellectual Property Right (IPR)" conducted by Department of Computer Science and Applications, Kurukshetra University Kurukshetra on March 12-14, 2021.
- Certified for attending online workshop "Artificial Intelligence for Business Transformation" conducted by Engineering Staff College of India on July 17-18, 2020
- Certified for attending Five Days online Faculty Development Programe on "Machine Learning and its Applications using Python" conducted by Ajay Kumar Garg Engineering College-MCA, Ghaziabad on June 29-July 3, 2020
- Certified for successfully completing online Skill Enhancement Programme on "Data Science (Data analytics)" conducted by Forsk Coding School, Forsk Technology, Jaipur June 25-27, 2020
- Certified for attending online workshop on "Machine Learning" conducted by Data-Driven Science on June 20, 2020
- Certified for attending online Research Trends in AI/Deep Learning for Computer Vision in Webinar Series in Software Industry: Tools and Methodology conducted by Anil Neerukonda Institute of Technology and Sciences, Visakhapatnam
- Certified for successfully completing online Skill Enhancement Programme on "Deep Learning" conducted by Forsk Coding School, Forsk Technology, Jaipur June 9-13, 2020
- Certified for attending online Webinar on "Paradigm in Teaching and Learning with Blended mode and Flipped classroom model" conducted by SDNB Vaishnav College for Women, Chennai on May 19,2020
- Certified for successfully completing online course "Python for Machine Learning and

Data Mining" at Udemy on May 14, 2020
- Certified for successfully completing online course "Deep Learning A-Z: Hands-On Artificial Neural Networks" by Super Data Science at Udemy on March 11, 2020
- Certified for successfully completing online course "Accelerating Deep Learning with GPU" by IBM Cognitive Class on Feb. 9, 2020
- Certified for successfully completing online course "Deep Learning with Tensorflow" by IBM Cognitive Class on Feb. 8, 2020
- Certified for successfully completing online course "Deep Learning Fundamentals" by IBM Cognitive Class on December 13, 2019
- Certified for successfully completing online course "Machine Learning with Python" by IBM Cognitive Class on December 11, 2019
- Certified for successfully completing online course "Data Science Methodology" by IBM Cognitive Class on Aug. 4, 2019
- Certified for successfully completing online course "Data Science Hands-On with Open Source Tools" by IBM Cognitive Class on July 31, 2019
- Certified for successfully completing online course "Data Analysis with Python" by IBM Cognitive Class on July 14, 2019
- Certified for successfully completing online course "Python A-Z: Python For Data Science With Real Exercises" by Super Data Science at Udemy on March 19, 2019
- Certified for successfully completing online course "Machine Learning A-Z: Hands-On Python & R in Data Science" by Super Data Science at Udemy on Jan. 23, 2019
- Co-chaired the Technical Session at "National Conference on Big Data Analytics" (Paricharcha-2018) organized by Department of Computer Science and Applications, Ch. Ranbir Singh Univ., Jind on March 16-17, 2018
- Certified for attending AICTE sponsored Short Term Course on "Cyber Crime & Forensic Tools through ICT" conducted by NITTTR, Chandigarh and MMICT&BM (MCA), M. M. University, Mullana on Feb. 06-10 2017.
- Certified for attending AICTE sponsored Short Term Course on "E-Governance, Ecopreneurship and Green IT in Technical Institutions through ICT" conducted by NITTTR, Chandigarh and M. M. Engineering College, M. M. University, Mullana on Jan. 16-20 2017
- Certified for attending AICTE sponsored Short Term Course on "Cloud Computing through ICT" conducted by NITTTR, Chandigarh and MMICT&BM(MCA), M.M. University, Mullana on Dec. 05- 09, 2016.
- Certified for attending AICTE sponsored Short Term Course on "Cyber Security Measures through ICT" conducted by NITTTR, Chandigarh and Computer Science Department, M. M. Engineering College, M. M. University, Mullana on March 24-28, 2014
- Resource Person for 3 Days Workshop on 'Quantitative Methods of Computer Applications", MMICT&BM(MCA), M. M. University, Mullana, July 23-25, 2010
- Received Best Paper Award for paper Bhamra G.S., Patel R.B. and Verma A.K., An Agent enriched Distributed Data Mining on Heterogeneous Networks, In proceeding of *National Conference on Challenges and Opportunities in Information Technology* (COIT-2008), pp. 325, March 29, 2008, RIMT-IET, Mandi Gobindgarh, Punjab, India
- Certified for attending Short term Training Course on "Enterprise Computing : Latest

Trends and Applications" conducted by NIT, Kurukshetra, June 18-22, 2007 • Certified for attending TEQIP sponsored Short Term Course on "Mobile Computing" conducted by NIT, Hamirpur, Dec. 18-22, 2006	
Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference	
• International (Abroad)	
• International (Within Country)	03
• National	01
• List of published papers	

- Bhamra G.S., Patel R.B. and Verma A.K., An Encounter with Strong Association Rules, In proceeding of *IEEE International Advanced Computing Conference* (IACC-2010), pp 342-346, February 19-20, 2010, Thapar University, Patiala, Punjab, India, IEEE Catalog Number: CFP1039F-CDR, ISBN: 978-1-4244-4791-6(CD Format), Indexing at IEEE Xplore Digital Library, **doi:** 10.1109/IADCC.2010.5422929
- Bhamra G.S., Patel R.B. and Verma A.K., Agent enriched Association Rule Mining in a Distributed Environment: A Review, In proceeding of *IEEE International Advanced Computing Conference* (IACC-2009), pp 2280-2285, March 6-7, 2009, Thapar University, Patiala, Punjab, India, ISBN:978-981-08-2465-5,9781424429271(Softcover format)
- Bhamra G.S., Patel R.B. and Verma A.K., Transactional Data Set Generator for Frequent Itemsets Mining, In proceedings of *3rd International Conference on Advanced Computing and Communication Technologies* (ICACCT-2008), pp: 169-173, November 8-9, 2008, Asia Pacific Institute of Information Technology, Panipat, Haryana, India
- Bhamra G.S., Patel R.B. and Verma A.K., An Agent enriched Distributed Data Mining on Heterogeneous Networks, In proceeding of *National Conference on Challenges and Opportunities in Information Technology* (COIT-2008), pp. 325, March 29, 2008, RIMT-IET, Mandi Gobindgarh, Punjab, India, Received Best Paper Award

Organizing National Conference/ International Conference/ FDP/STTP	
• List of Conference/FDP/STTP committee	

- Technical Program Committee Member at IEEE 2nd International Conference on "Next Generation Computing Technologies" (NGCT-2016), Centre for Information Technology, University of Petroleum and Energy Studies (UPES), Dehradun on Oct.14-16, 2016
- Session chair at IEEE International Conference On Computational Intelligence and Computing Applications (ICCICA-2024), Department of Computer Science and Engineering, Panipat Institute of Engineering and Technology (PIET), Samalkha, Panipat on May 23-24, 2024

Social Contributions and Sports	
- **List of Social Contributions and Sports**	Helped migrant labors during COVID pandemic in 2020.