ਪ੍ਰੋਫਾਈਲ

1. ਨਿੱਜੀ ਜਾਣਕਾਰੀ

ਨਾਮ	:	ਡਾ. ਗੁਰਜੀਤ ਸਿੰਘ ਭੱਠਲ
ਮਾਤਾ ਦਾ ਨਾਮ	:	ਗੁਰਮੇਲ ਕੌਰ
ਪਿਤਾ ਦਾ ਨਾਮ	:	ਜੀਤ ਸਿੰਘ ਭੱਠਲ
ਜੀਵਨ ਸਾਥੀ	:	ਇੰਦਰਜੀਤ ਕੌਰ
ਜਨਮ ਤਰੀਕ	:	30 ਅਪ੍ਰੈਲ 1975
ਪੱਕਾ ਪਤਾ	:	# 208, ਫੇਜ਼ -1, ਅਰਬਨ ਅਸਟੇਟ, ਪਟਿਆਲਾ
ਦਫਤਰ ਦਾ ਪਤਾ	:	ਕਮਰਾ F-317 ਤੀਜੀ ਮੰਜ਼ਲ UCOE, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ ਕੈਂਪਸ
ਸੰਪਰਕ	:	+91-9814205475 (ਮੋਬਾਈਲ)
ਈਮੇਲ	:	gurjit.bhathal@gmail.com (ਨਿੱਜੀ), gurjit.ce@pbi.ac.in (ਦਫਤਰੀ)

ਸੰਖੇਪ ਜੀਵਨੀ ਬਾਰੇ:

ਡਾ: ਗੁਰਜੀਤ ਸਿੰਘ ਭੱਠਲ ਇਸ ਸਮੇਂ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ (ਭਾਰਤ) ਵਿੱਚ ਬਤੌਰ ਸਹਾਇਕ ਪ੍ਰੋਫੈਸਰ(ਪੜਾਅ-3) ਵਜੋਂ ਕੰਮ ਕਰ ਰਹੇ ਹਨ। ਯੂਨੀਵਰਸਿਟੀ ਜੁਆਇਨ ਕਰਨ ਤੋਂ ਪਹਿਲਾਂ, ਉਨ੍ਹਾਂ ਨੇ ਭਾਰਤ ਵਿੱਚ ਪੌਲੀਟੈਕਨਿਕ ਕਾਲਜ ਵਿੱਚ 3 ਸਾਲ ਪ੍ਰਿੰਸੀਪਲ ਵਜੋਂ ਅਤੇ ਟੋਰਾਂਟੋ (ਕੈਨੇਡਾ) ਵਿੱਚ ਸਿਸਟਮ ਇੰਜੀਨੀਅਰ ਵਜੋਂ ਸੇਵਾ ਨਿਭਾਈ। ਉਹਨਾ ਨੇ ਪੀ.ਐਚ.ਡੀ. ਦੀ ਡਿਗ੍ਰੀ, ਫੈਕਲਟੀ ਆਫ਼ ਇੰਜੀਨੀਅਰਿੰਗ ਅਤੇ ਤਕਨਾਲੋਜੀ ਵਿੱਚ ਅਤੇ, ਐਮ.ਟੈਕ. (ਕੰਪਿਊਟਰ ਸਾਇੰਸ ਅਤੇ ਇੰਜੀਨੀਅਰਿੰਗ) ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ ਤੋਂ ਅਤੇ ਬੀ.ਟੈਕ. (ਕੰਪਿਊਟਰ ਸਾਇੰਸ ਅਤੇ ਇੰਜੀਨੀਅਰਿੰਗ) SLIET, ਲੌਂਗੋਵਾਲ (ਭਾਰਤ) ਤੋਂ ਕੀਤੀ । ਉਨ੍ਹਾਂ ਕੋਲ ਭਾਰਤ ਅਤੇ ਵਿਦੇਸ਼ਾਂ ਵਿੱਚ ਅਧਿਆਪਨ ਅਤੇ ਉਦਯੋਗ ਵਿੱਚ 24 ਸਾਲਾਂ ਤੋਂ ਵੱਧ ਦਾ ਤਜਰਬਾ ਹੈ। ਉਨ੍ਹਾਂ ਨੇ ਵੱਖ-ਵੱਖ ਨਾਮਵਰ ਅੰਤਰਰਾਸ਼ਟਰੀ ਰਸਾਲਿਆਂ ਵਿੱਚ 98 ਤੋਂ ਵੱਧ ਪ੍ਰਕਾਸ਼ਨਾਂ ਵਿੱਚ ਯੋਗਦਾਨ ਪਾਉਣ ਅਤੇ ਕਈ ਅੰਤਰਰਾਸ਼ਟਰੀ ਕਾਨਫਰੰਸਾਂ ਵਿੱਚ ਹਿੱਸਾ ਲੈਣ ਤੋਂ ਇਲਾਵਾ 39 ਤੋਂ ਵੱਧ ਐਮ.ਟੈਕ. ਖੋਜ-ਨਿਗਰਾਨ ਦਾ ਕੰਮ ਕੀਤਾ ਹੈ। ਉਨ੍ਹਾਂ ਨੇ 5 ਕਿਤਾਬਾਂ ਵੀ ਲਿਖੀਆਂ ਹਨ। ਉਨ੍ਹਾਂ ਦੀਆਂ ਖੋਜ ਰੁਚੀਆਂ ਵਿੱਚ ਬਿਗ ਡੇਟਾ, ਕਲਾਉਡ ਕੰਪਿਊਟਿੰਗ, ਸੂਚਨਾ ਸੁਰੱਖਿਆ, ਸਾਈਬਰ ਸੁਰੱਖਿਆ, ਅਤੇ ਡੇਟਾ ਵਿਸ਼ਲੇਸ਼ਣ ਸ਼ਾਮਲ ਹਨ। ਉਹ IAENG, ICSES, ਅਤੇ CSI ਦਾ ਮੈਂਬਰ ਹਨ। ਉਹ ਵੱਖ-ਵੱਖ ਰਸਾਲਿਆਂ ਦੇ ਸੰਪਾਦਕੀ ਬੋਰਡ ਦੇ ਮੈਂਬਰ ਹਨ। ਉਨ੍ਹਾਂ ਆਪਣੇ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਟੀਮ ਨਾਲ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ ਲਈ ਦੋ ਪ੍ਰੋਜੈਕਟ ਪੂਰੇ ਕੀਤੇ ਹਨ। ਡਾ. ਭੱਠਲ ਨੂੰ 4ਵੀਂ ਸਲਾਨਾ ਰਿਸਰਚ ਮੀਟ – 2018 ਵਿੱਚ ਕੰਪਿਊਟਰ ਸਾਇੰਸ ਅਤੇ ਇੰਜਨੀਅਰਿੰਗ ਵਿੱਚ ਇੱਕ **ਉੱਤਮ ਵਿਗਿਆਨੀ ਨਾਲ ਸਨਮਾਨਿਤ** ਕੀਤਾ ਗਿਆ ਅਤੇ ਇੰਟਰਨੈਸ਼ਨਲ ਇੰਸਟੀਚਿਉਟ ਆਫ਼ ਆਰਗੇਨਾਈਜ਼ਡ ਰਿਸਰਚ ਦੁਆਰਾ "2021 ਦੇ 100 **ਉੱਘੇ ਅਕਾਦਮਿਕ ਵਿਗਿਆਨੀਆਂ**" ਵਿੱਚ ਸੂਚੀਬੱਧ ਕੀਤਾ ਗਿਆ ਹੈ।

Profile

1. Personal Information:

Name	: Dr. Gurjit Singh Bhathal
Mother's Name	: Gurmail Kaur
Father's Name	: Jit Singh Bhathal
Spouse	: Inderjit Kaur
Date of Birth	: 30 April 1975
Residence Address	: #208, Phase-I, Urban Estate, Patiala
Office Address	: Room F-317 Third Floor UCOE, Punjabi University Campus
Contact	: +91-98142054745 (Mobile)
Email	: gurjit.bhathal@gmail.com (Personal), gurjit.ce@pbi.ac.in (Official)

2. Biography:

Dr. Gurjit Singh Bhathal is currently working as an Assistant Professor (Stage 3) in Punjabi University, Patiala (Pb). Before joining the university, he served as Principal in polytechnic college for 3 years in India, and as System Engineer in Toronto (Canada) for 1 years. He has received a Ph.D. in Faculty of Engineering and Technology and, M.Tech. in Computer Science and Engineering from Punjabi University. He did his B.Tech. in Computer Science and Engineering from SLIET, Longowal, India. He has more than 24 years of experience in teaching and industry in India and abroad. He has supervised more than 39 M.Tech. dissertations. Besides contributing to more than 98 publications in various reputed international journals and participating in many international conferences. He has authored 5 books. His research interests include Big Data, Cloud Computing, Information Security, Cyber Security, and Data Analytics. He is a member of IAENG, ICSES, and CSI. He is on the editorial board of various journals. He, along with a team of his students, completed two projects for Punjabi University. Dr. Bhathal was also awarded an **Outstanding Scientist in Computer Science and Engineering** at 4th Annual Research Meet – **2018** and is listed in **"100 Eminent Academicians of 2021"** by **International Institute of Organized Research.**

3. Educational Qualifications:

Sr. No.	Degree / Diploma / Certificate	Year of Passing	University / College
1.	PhD (Faculty of Engg. and Technology)	2019	Punjabi University
2.	M. Tech (CSE)	2004	Punjabi. University
3.	B. Tech (CSE)	1999	SLIET, Longowal
4.	DIPLOMA(CSE)	1996	SLIET, Longowal
5.	CERTIFICATE COURSE	1994	SLIET, Longowal

4. Work Experience:

Designation	Organization	Date of Joining	Time Period	
			Years	Months
Assistant Professor	Computer Science and Engineering, Punjabi University	30.11.2011	12	6
Principal	Bhai Gurdas Polytechnic College, Sangrur	11.09.2008	3	2
Sr. Lecturer	RIMT Gobindgarh	15.07.2008	0	03
Production Engineer	CNB Computers Toronto (ON) Canada	20.07.2007	1	0
Lecturer	Thapar Polytechnic College, Patiala	01.08.2005	1	11
Lecturer	SGHCMT Patiala	20.07.2001	4	02
Lecturer	PCMT College Patiala	09.11.1999	1	11

5. Research contribution:

- Publications in National/ International Journals **68**
- Publications in National/ International Conferences **28**
- Books Published (National/ International) **05**
- M.Tech. Thesis Guided (Completed) **39**
- PhD. Thesis Guided (Completed/Registered/Enrolled) **08**

6. Area of Specialization:

- Big Data Computing and Distributed Computing
- Relational Databases and NoSQL
- Cloud Computing and Virtualization
- Information Security and Cyber security

7. Subjects Taught:

- Advance Database Concepts and Big Data, Relational Database Management System
- Cloud Computing, Network Security, Cyber Security and Cyber Laws

8. Award and Recognitions:

- Appreciation Letter by HoD CSE Punjabi University for NAAC Work on 11 October 2023
- Listed in **100 Eminent Academicians of 2021 by** International Institute of Organized Research (I2OR) Ministry of MSME, Government of India for Remarkable Contribution in the field of Academics.
- Award of **Innovative Educator-2021 by** International Institute of Organized Research (I2OR) Ministry of MSME, Government of India for Contribution in the field of Computer Science and Research.

9. **All India Radio (AIR) Programmes/Talks:**

- Talk on 'Girls in ICT' on FM 100.2 MHz AIR Akaashvaani Patiala on 25th April 2024
- Talk on Technology in 'Digital Duniya" on FM 100.2 MHz AIR Akaashvaani Patiala on 20th May 2023
- Live Talk: "Career opportunities during COVID-19" on FM 100.2 MHz AIR Akaashvaani Patiala on 29th December 2021
- Live Talk: "Career Counselling" on FM 100.2 MHz AIR Akaashvaani Patiala on 29th July 2020

10. **Administrative Positions Held**

- Nodal officer for NAAC-2023 in department data collection and handling
- Coordinator for Digitization of Central Library of Punjabi University (Digitization of old Thesis)
- Coordinator of MTech Part Time in CSE Dept. PUP, with more than 180 students and faculty.
- Principal of Bhai Gurdas Polytechnic College with total team of 80 teaching and non-teaching staff.
- Production Engineer in CNB Computers Toronto (ON) Canada coordinated team of 10 workers.

11. **Membership of Professional Societies**

- Member of the **Computer Society of India (CSI)**
- Life Time Member of the **International Association of Engineers (IAENG)**
- Life Time Member of the **International Computer Science and Engineering Society (ICSES)**

12. **Contributed as Reviewer for Journals and Conferences:**

- **IEEE Access**: **The Multidisciplinary Open Access Journal, IEEE (SCI)**
- **Array Journal, (Elsevier).**
- **Decision Analytics Journal (Elsevier)**
- **Soft Computing (Scopus)**
- **Indonesian Journal of Electrical Engineering and Computer Science (Scopus)**
- Countless other papers for different National/ International conferences.

13. **Lectures Delivered in Conferences / Seminars / Workshops:**

- Expert talk on "Safe Use of Internet and Smartphone's" 20th January 2024 (Govt. School Theri, Patiala)
- Expert Lecture in FDP on "Recent Advances Computer Vision" organized by IIT Roorke December 2023
- Expert talk on "Cyber Awareness" In February 2023 (Govt. School Daun Kalan, Patiala)
- Expert talk on "Cyber Awareness" In November 2022 (Govt. Polytechnic college for Womens, Patiala)
- Expert talk on "Network and Cyber Security" In September 2019 (Desh Bhagat, Dhuri)
- One Day National Workshop on "Network Security Issues" on 17-October 2018 (GNA University)
- UGC Sponsored National Workshop on "Hybrid Cloud Computing and IoT" on 7-20 September 2017 (Guru Nanak Khalsa College, Yamuna Nagar, Haryana)
- DST Sponsored One Day National Workshop on "Data Mining and Big Data tools" on 25-January 2017
- One Day National Workshop on "Big Data and Hadoop" on 06-October 2016

14. Workshops, FDPs and Webinars Participations:

- FDP on "Effect of Generative AI in Modern Research and Industry" 29th May-03 April Kolkata,India
- Workshop on NEP 2020 organized by Punjabi University 5th to 14 February 2024
- Webinar on Webinar on "Copyrights: What, Why and How" 30th April 2022
- Workshop on "Comprehensive Glossary of Engineering" Organized by Department of Higher Education, Govt. of India. In March 2022
- One Day webinar on "Machine Learning" Organized by GNDU Amritsar 9th March 2022
- Webinar on "How to Write a Good Research Project Proposal" 31st May 2020 Punjabi University
- Webinar on "National Intellectual Property Rights and Patenting" "National Webinar on Intellectual Property Rights and Patenting" 23 May 2020 YCOE.
- FDP on "Cyber Security and Malware Analysis" 26-27 May CRM College Hyderabad
- STC on "Data Science using Python" 18-22 May 2020 (Online Mode) NITTTR Chandigarh
- STC on "Cyber Security" 9-13 December 2019 NITTTR Chandigarh
- STC on "Internet of Things" 23-27 September 2019 NITTTR Chandigarh
- Delegate of "International Global Conference on Cyber Space" , Organized by Ministry of Electronic and Information Technology India, 23-24 November 2017 (ID-81852 GCCS-2017)
- STC on "Wireless Communication" 2-6 May 2016 NITTTR Chandigarh
- STC on "Cyber Threat Detection and safety" 4-15 January 2016 NITTTR Chandigarh
- National Workshop on "Learning Data Mining: Tools and Techniques" 14-16 April 2012
- STC on E-Commerce and Computer Network from NITTTR Chandigarh 2007

15. Professional Certifications:

- Cloud Serverless Applications Certificate by Great Learn 2024
- Introduction to Cloud Computing by IBM () February 2024
- Machine Learning Foundations: A Case Study Approach Provided by Coursera offered by **University of Washington**-2020
- Applied Machine Learning in Python Provided by Coursera offered by **University of Michigan** -2020
- Cyber security and the Internet of Things Provided by Coursera Offered by **Kennesaw State University**-2020
- Network Security & Database Vulnerabilities Provided by Coursera offered by **IBM -**2020
- Applied Data Science with Python Provided by IBM- 2020
- Data Science Foundation's Provided by IBM- 2020
- Deep Learning With Tensor Flow by IBM- 2020
- Certificate of Cyber security Essentials by CISCO-2020
- Certificate of Introduction to Amazon Elastic Compute Cloud (EC2) by AWS-2020
- MCSA-Windows Server 2003 Messaging in 2007
- MCSD-Windows Certified Software Developer 1999

16. Books Published : ⇧

[1]   Gurjit Singh Bhathal, Fundamentals of Modern Databases, 1st ed Patiala, India, TwentyFirst Century Publication, 2023.

[2]   Gurjit Singh Bhathal and Gaurav Gupta, Sentiment Analysis of English Tweets using Data Mining: Data Mining, Sentiment Analysis, 1st ed. online, India: BookRix, 2018.

[3]   Gurjit Singh Bhathal and Amardeep Singh, ""Big Data Computing with Distributed Computing Frameworks," in Innovations in Electronics and Communication Engineering. Lecture Notes in Networks and Systems 65, H. Saini et al., Eds. Hyderabad, India: Springer Nature Singapore Private Limited, 2018, ch. V, pp. 467-477.

[4]   Gurjit Singh Bhathal, Database Management Systems, 1st ed. Patiala, India: TwentyFirst Century Publication, 2014.

[5]   Gurjit Singh Bhathal, Williamjeet Singh, Harminder Singh, and Simranjit Singh, Basics of Information Technology, 1st ed. New Delhi, India: Syntax Publications, 2010.

17. Publications in National and International Conferences: ⇧

[1]   Singla, S., Gupta, G., and Bhathal, G. S. (2024). "Performance Evaluation of Small-Cap Equity Mutual Fund Using Data Mining Techniques" 11th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO 2024), organized by BVICAM, by Amity Institute of Information Technology, Amity University, India(UP).

[2]   Singh, S., and Bhathal, G. S. (2023). "Navigating The FaaS Frontier: Challenges, Perspectives and Benefits Across Cloud Service Provider" 5th International Conference on Innovations in Communication Computing and Sciences (ICCS-2024), Department of ECE, Chandigarh Engineering College-CGC, Landran, Mohali, India (PB).

[3]   Akrami, Z., and Bhathal, G. S. (2024). "Analyzing Security Challenges in Cloud-Based E-commerce Systems a Comprehensive Study" 3rd International Conference for Innovation in Technology (INOCON 2024), Sai Vidya Institute of Technology, Bengaluru, India.

[4]   Kakkar, K. K, Gupta, G., and Bhathal, G. S. (2024). "Striking the Balance: Comprehensive Insights into Data Consistency in NoSQL Realms" 11th International Conference on Computing for Sustainable Global Development (INDIACom-2024), organized by BVICAM, New Delhi, India.

[5]   Akrami, Z., and Bhathal, G. S. (2023). "Cloud Computing Empowering E-commerce Innovation" Second International Conference on Applied Data Science and Smart Systems (ADSSS-2023), Department of Computer Applications, Chitkara University, India (PB).

[6]   Kaur, J., and Bhathal, G. S. (2023). "DDos Attack Detection Methods, Challenges and Opportunities: A survey" Second International Conference on Applied Data Science and Smart Systems (ADSSS-2023), Department of Computer Applications, Chitkara University, India (PB).

[7] Singla, V., Singh, A., and Bhathal, G. S. (2023). "Navigating Blockchain-Based Clinical Data Sharing: An Interoperability Review" Second International Conference on Applied Data Science and Smart Systems (ADSSS-2023), Department of Computer Applications, Chitkara University, India (PB).

[8] Juneja, S., Bhathal, G. S., and Sidhu, B. K. (2022). "Current Trends and Literature Review of Machine Learning Techniques for predicting software fault based on Textual and Numeric Data." First International Conference on Applied Data Science and Smart Systems (ADSSS-2022), Department of Computer Applications, Chitkara University, India (PB).

[9] Ghuman, A., Sidhu, B. K., Gupta, G. and Bhathal, G. S. (2022). "A Machine Learning Approach to Predict Critical Illness in Covid-19 Patients." First International Conference on Applied Data Science and Smart Systems (ADSSS-2022), Department of Computer Applications, Chitkara University, India (PB).

[10] Singla, S., Gupta, G. and Bhathal, G. S. (2022). "Potential Pre- Processing Techniques of Data Mining on Mutual Funds." First International Conference on Applied Data Science and Smart Systems (ADSSS), Department of Computer Applications, Chitkara University, India (PB).

[11] Bhathal, G. S., "Revamping Supermarkets with AI and RSSi ", in International Conference on Artificial Intelligent and Smart Systems, Coimbatore, India, 2021, pp. 35-38.

[12] Bhathal, G. S. (2020). "National Advances in Applied Sciences and Mathematics", Chitkara University, Rajpura (Pb.), India.

[13] Bhathal, G. S. (2018). "Big Data Solution: Improvised Distributions Framework of Hadoop," in International Confrence on Intelligent Computing and Control Sysytems, Madurai, India, pp. 35-38.

[14] Gurjit Singh Bhathal and Amardeep Singh, "Big Data Computing with Distributed Computing," in International Confrence on Innonations inElectronic and Communication Engineering, Hyderabad, 2018, pp. 467-477.

[15] Ravneet Kaur, Gurjit Singh Bhathal, and Gaurav Gupta, "Sentimental Analysis and its Challenges," in International Conference on Computer Science and Engineering, Chandigarh, 2017, pp. 97-102.

[16] Arsika and Gurjit Singh Bhathal, "Assessment of Sports in Academics and Determining the Effectiveness of Modenity of Medical Equipment using Data Mining Techniques," in International Conference on Innovations in Computing, Mohali, India, 2017.

[17] Davandeep Kaur and Gurjit Singh Bhathal, "Analysis on Causes and Prevention of DDoS Attacks in Cloud Copmuting," in International Conference on Innovations in Computing, Mohali, India, 2017.

[18] Jyoti Garg and Gurjit Singh Bhathal, "Overview of Workflow Scheduling Algorithms in Cloud Computing," in Emerging Areas in Computer Sciences and Communication Engineering -2016, Mohali, 2016, pp. 66-72.

[19] Kamalpreet Kaur and Gurjit Singh Bhathal, "Improving Store and Access performance in Heterogeneous Environment using MapReduce," in International Conference On Recent Trends In Computing, Patiala, 2016, pp. 357-361.

[20] Gagandeep Kaur, Gurjit Singh Bhathal, and Purneet Singh, "Evaluation of Efficiency and Security of Data using different Algorithms for Encryption and Key Management," in International Conference On Recent Trends In Computing, Patiala, 2016, pp. 155-160.

[21] Parneet Singh and Gurjit Singh Bhathal, "Comparitive Analysis of Fault Tolerence Techniques in Cloud Computing," in International Confrence On Recent Trends in Computing, Patiala, 2016, pp. 142-146.

[22] Kamalpreet Kaur and Gurjit Singh Bhathal, "Cloud Computing, Big Data Computing with HBase," in Emerging Areas in Computer Sciences and Communication Engineering -2016, Mohali, 2016, pp. 45-48.

[23] Jasminderjit Kaur and Gurjit Singh Bhathal, "Cloud Computing and Energy Efficiency," in Emerging Areas in Computer Sciences and Communication Engineering -2016, Mohali, 2016, pp. 622-624.

[24] Preetinder Singh and Gurjit Singh Bhathal, "Authorization And Mutifactor Authentication Using Dynamic Security Feature On Cloud," in International Conference On Recent Trends In Computing, Patiala, 2016, pp. 215-223.

[25] G S Bhathal and G N Singh, "Application Virtulization: New way of Application Delivery as Service to end Application Development," in Information Management in the Knowledge Economy, Chandigarh, 2012, pp. 118-124.

[26] Gurjit Singh Bhathal and Yadwinder Singh, "Prevention of Passive Attacks Against Computer Network," in Innovative Development in Engineering Application , Sangrur, 2011, pp. 165-167.

[27] Gurjit Singh Bhathal, "Application Portability through Virtualization," in Innovative Development in Engineering Application, Sangrur, 2010, pp. 175-177.

[28] Gurjit Singh Bhathal and Ritu Walia, "Virtulization," in National Conference on Trends in Computing, Chandigarh, 2007, pp. 205-210.

18. Publications in International Reputed Journals: ⇧

[1] Juneja, S.,Bhathal, G. S. and Sidhu, B. K. (2024). "Development of optimised software fault prediction model using machine learning" Intelligent Decision Technologies 37(5): 1522-1530.

[2] Singla, S., Gupta, G., and Bhathal, G. S. (2024). "Optimizing Fund Performance: A Communication Systems Approach to Data Mining in Large- Cap Equity Mutual Funds" Journal of Electrical Systems 20(5S): 2941-2953.

[3]   Akrami, Z., and Bhathal, G. S. (2024). "Impact of Cloud Computing on E-Commerce" International Journal for Research Trends and Innovation(IJRTI)9(3): 525-531.

[4]   Singh, S., and Bhathal, G. S. (2024). "Microservices Security Challenges and Solutions in Cloud Environment" International Journal of Science and Research (IJSR)13(3): 201-205.

[5]   Kaur, J., and Bhathal, G. S. (2024). "Enhancement in Homomorphic Encryption Scheme of Cloud Computing to Isolate DOS Attack" International Journal of Science and Research (IJSR)13(2): 1755-1759.

[6]   Krishan, K.,Gupta.,G., and Bhathal, G. S. (2024). "Empirical Analysis of Performance Parameters for Consistency in Distributed Databases" International Journal of Intelligent Systems and Applications in Engineering 12(4s): 691-701.

[7]   Krishan, K.,Gupta.,G., and Bhathal, G. S. (2022). "A Review and Comparison of Key Distributed Database Characterstics across several NoSQL Distributed Databases." Journal of Data Acquisition and Processing 37(5): 1513-1521.

[8]   Juneja, S.,Bhathal, G. S. and Sidhu, B. K. (2022). "Programming Tool for Assembling Software Bugs through Open Source Repository." Journal of Data Acquisition and Processing 37(5): 1522-1530.

[9]   Bhathal, G. S. (2024). "Challenges and Opportunities in Mobile Cloud Computing for Big Data Analytics" International Journal of Science and Research (IJSR) 11(1): 1611-1615.

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19. Details of Completed Dissertations: ⇧

Sr. No.	Roll No.	Name	Thesis Title	Submission Date
1	11191064	Gursimran Singh	Layered Architectural Approach for Virtualized Cloud Computing	12/8/2013
2	11191019	Ramandeep Kaur	An Extraction of Tumor Region from MR Images Using Fuzzy C-Means Clustering	12/8/2013
3	11171002	Gurjot Singh Sodhi	Enhancing Data Security and Privacy on WebOS with Desktop-as-Service	7/7/2014
4	11171062	Kirandeep Kaur	Taxonomy of Portable Applications: Using Unique Concept of Virtualization	7/7/2014
5	11171041	Priya Batta	Association Rules Optimization using Apriori and Ant Colony Algorithm	7/7/2014
6	11171055	Priya Garg	Performance Comparison of Routing Protocols AODV DSR and OLSR Based on Scalability in MANET	27/08/2014
7	11171063	Parneet Singh	Performance Comparison of Virtualized and Non-Virtualized Guests Machines Based on Their Layer of Abstraction	27/08/2014
8	11291017	Sarabjeet Kaur	Enhanced Energy Efficient Allocation of Virtual Machines using Minimum Utilization Policy in CloudSim	27/08/2014
9	11291016	Dilpreet Kaur	A Hybrid Encryption Scheme for Enhancing Data Security using Hashing and Whitening	27/08/2014
10	11391031	Jagjit Singh	A Novel SSHE Architecture for Cloud with MAC authentication	19/08/2015
11	11391032	Charanjit Kaur	Hybrid Encryption Scheme for Hadoop Based Cloud Data Security	19/08/2015
12	11271038	Kawaljeet Kaur	Enhancement Of Mobile Cloud Computing	19/08/2015

13	11171003	Kanupriya	Enhancement In Security of Cloud Computing Using KAMAN effect	19/08/2015
14	11271031	Hasrat Handa	Fault Tolrance in distributed Computing	6/10/2015
15	120457121	Amanjot Kaur	Power Efficient Allocation of Virtual Machines using Minimum Utilization Policy	6/12/2015
16	11491029	Ramninder Kaur	Campus Guide (Infosys Project)	6/6/2016
17	11491030	Komalpreet Kaur	Health Care Process using Informatics congos (Infosys Project)	6/6/2016
18	11371058	Gagandeep Kaur Sandhu	To Enhance the OTP generation process for cloud data security using Diffie-Hellman and HMAC	8/8/2016
19	11371049	PreetInder Singh	Authorization And Multifactor Authentication Using Dynamic Security Feature On Cloud	8/29/2016
20	11371051	Gagan Marken	Key Generation Using Modified Advance Encryption standard for Data Security	8/29/2016
21	7141-15-803	Ramanpreet Kaur	Sentimental Analysis of Online Reviews of Products by Customer	12/7/2017
22	7141-15-801	Jyoti	Genetic Based Workflow Scheduling in Cloud Computing	12/7/2017
23	7141-15-798	Jasminderjit Kaur	Energy Efficiency in Cloud Computing Using VM Migration	27/7/2017
24	7141-14-1182	Davandeep Kaur	To Detect the Causes and Mitigate the Effects of the DDoS Attacks	18/8/2017
25	7141-15-807	Kamalpreet Kaur	Evaluation of Various Sorting Algorithm in Cloud Computing using MapReduce	18/8/2017

26	7141-14-1155	Ramandeep Kaur	Prediction of Dengue Disease using Data Mining	18/8/2017
27	7141-14-1161	Ravneet Kaur	Sentimental Analysis of English Tweets using Data Mining	22/8/2017
28	7141-14-1208	Arshika	Determining The Effectiveness of Modernity Medical Equipment's Through Data Mining	22/8/2017
29	7141-14-1187	Amarjot Singh Gha	Data Mining and Envision Effects of Sports on Vocational academics	22/8/2017
30	7141-15-879	Vanita Rani	Detection and Classification of Cardiac Arrhythmias using ECG Big Data Analysis	07/9/2018
31	7141-15-871	Roopkamal Kaur Dhindsa	Hybrid Scheduling Algorithm for Performance enhancement of VM in Cloud Computing Environment	07/9/2018
32	7141-15-881	Gaganpreet Kaur	Load Balancing of Virtual Machines in Cloud Environment using Dynamic Load Balancing Algorithm	07/9/2018
33	7141-16-913	Mandeep Kaur	Performance Evaluation of Various Big Databases on The Bases of CRUD Operations	07/9/2018
34	7141-16-943	Arshdeep Singh	Content Search Optimizations in Named Data Networking using Bloom Filters	18/2/2020
35	7141-16-944	Mumtaj	Feature Selection and Categorization of Text Using Decision Tree Classifier and Particle Swarm Optimization	16/01/2021
36	YCE(TS) - 476	Amarinder Singh	A Framework to Handel Small Files in Big Data Distributed Environment	16/01/2021
37	7141-18-660	Sharanjit Kaur	Securing IoT Communication Between Controller and Application Using AES- 128	16/01/2021
38	7141-2021-236	Jaspreet Kaur	Homomorphic Encryption for Cloud Security: DoS Attack Mitigation	10/11/2023
39	7141-2021-245	Zinatullah Akrami	Cloud Computing's E-commerce Revolution: An In-Depth Analysis	01/03/2024
40				

20. Extra-Curricular Activities Organized: ⇧

Participation	Position Held
• National Conference on Technical Vocational Education Training and skills Development: A Roadmap for Empowerment on 17-18 December 2008	Delegate
• State level Basketball (Girls) tournament, • Fresher party two times, one Annual college function	Coordinator
• Organized two day work shop on Latest Trends in cloud computing	Organizing Secretary
• Convener Cultural Committee in Crispolatieia- 2012 • Member of arrangement committee of Crispolatieia- 2012	Convener
• Member of Transport Committee of International Conference in Economics Department- 2013	Member
• Discipline committee Crispolatieia- 2013 • Fresher party -2013 • Akhand Path Organizing Committee-2013	Convener
• Convener of Cultural Committee in Crispolatieia- 2014 • Arrangement committee of Akhand Path Sahib 2014	Convener
• Member of Accommodation Committee of International Conference in Economics Department -2014	Member
• Member of Transport Committee of International Conference in Economics Department- 2015	Member
• National One Seminar on "Higher Education for Development and Role of Teachers" 17-July 2017	Participant
• Member of Accommodation Committee of International Conference in Economics Department- 2019	Member
• Member of Discipline Committee in Crispolatieia- 2019	Member
• Member of Accommodation Committee of International Conference in Economics Department- 2020	Member
• Coordinator to Digitize Main Library and Research Branch of Punjabi University- 2020	Coordinator
• Coordinator Document Verification Committee Other States Quota in Counseling for admission of Punjabi University- 2021	Coordinator
• Nodal officer for departmental data collection NAAC 2023 of Punjabi University- 2023	Nodal officer
• Coordinator Document Verification Committee in Counseling for admission of Punjabi University- 2024	Coordinator

Dr Gurjit Singh Bhathal