


## Faculty Profile

Name	Karamjeet Kaur	
Designation	Assistant Professor, Head of Department (CSE)	
Department	Computer Science and Engg.	
Date of Joining	11.08.2006	
Qualifications	B. Tech (CSE), M. Tech (CSE), Ph. D. (CSE Pursuing)	
Research Areas	Machine Learning, Optimization Techniques, Sequence Alignment using GPU	
E-mail id	hodcs@coet.in	
Total Experience	Teaching (in years): 23 years Industry (in years): 0	

### Books/Book Chapters Published:

S. No.	Title of the Book/Chapter	Name (s) of Author(s)	Publisher	ISBN No./Year of Publication
1	ICT Systems and Sustainability	Karamjeet Kaur	Springer	978-981-16-5987-4, Published: 5 January 2022
2	Advances in Computing and Data Sciences	Karamjeet Kaur	Springer	978-3-031-12638-3 Published: 27 July 2022

### List of Publications:

#### Journals(National/International):

S. No.	Title of the Paper	Name (s) of Author(s)	Name of the Journal	Vol. No., Issue No., pp, Year	Publisher
1	Accelerating the performance of multiple sequence alignment using hybrid swarm algorithm	Karamjeet Kaur	Computer Science Review	2023	Elsevier
2	Feature selection for high dimensional data	Karamjeet Kaur	International Journal of novel Research and Development	Vol. No. 8, Issue No. 4, pp 171-174, May 2023	IJNRD
3	Blood bank management system with emergency blood locator	Karamjeet Kaur	International Journal for Research in	Vol. No. 11, Issue No.5, pp	IJRASET

			Applied Science & Engineering Technology	5227-5231, May, 2023	
4	Eye/facial gesture system controller based on AI/ML	Karamjeet Kaur	International Journal for Research in Applied Science & Engineering Technology	Vol. No. 11, Issue No. 5, pp 5063-5068, May 2023	IJRASET
5	Leaf disease prediction	Karamjeet Kaur	International Journal of novel Research and Development	Vol. No. 8, Issue No. 5, pp 341-346, May, 2023	IJNRD
6	Accelerating the performance of sequence alignment using machine learning with RAPIDS enabled GPU	Karamjeet Kaur	Journal of Current Science and Technology	Vol. No. 12, Issue No. 3, pp 462-481, September 2022	Rangsit University
7	Performance analysis of multiple sequence alignment algorithm using swarm intelligence	Karamjeet Kaur	NeurQuantology	Vol. No. 20 , Issue No.9, pp 6780-6791 September 2022	Anka Publishers
8	AI based method for examining the state of the lungs with suspected Covid-19 patients	Karamjeet Kaur	Australian Patent	Publication No. 2021103340, 2021	WIPO
9	A method for detecting breast cancer using artificial neural networks	Karamjeet Kaur	Indian Patent	Publication No. 202111019071, 2021	WIPO
10	A novel long range IOT based Automatic Dispenser System for heavy water line flow control	Karamjeet Kaur	Indian Patent	Publication No. 202131017851, 2021	WIPO

<b>Conferences (National/International):</b>			
S. No.	Title of the Paper	Name (s) of Author(s)	Name of the Conference and location
1	Fuzzy logic-based support vector regression (SVR) model for software cost estimation using machine learning	Karamjeet Kaur	ICT4SD 2021, Goa, India on August 3- 4, 2023
2	Accelerating the performance of sequence classification using GPU based ensemble learning with extreme gradient boosting	Karamjeet Kaur	ICACDS 2022, Kurnool (Andhra Pradesh), India on April 22-23, 2022.
3	Accelerating Smith-Waterman algorithm for faster sequence alignment using graphical processing unit	Karamjeet Kaur	AICECS 2021, Manipal Institute of Technology, Manipal, India on October 28-30, 2021
4	Accelerating the performance of sequence alignment using high performance multi-core GPU	Karamjeet Kaur	International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), Amity University Dubai, UAE on December 11–12, 2019
5	Mobility management in HSR protocol with optimal utilization	Karamjeet Kaur	National Conference on Recent Trends in Computer and Information Technologies, Panipat, Haryana, India on April 24-25, 2009

<b>Workshop/FDP attended:</b>			
S. No.	Name of the Workshop/FDP	Organizer	Date
1.	IP Awareness/Training program under National Intellectual Property Awareness Mission	Intellectual Property Office and MoE's Innovation Cell, India	4.8.2022
2.	Designing and Modelling of IOT, AI and ML Systems	AICTE, ATAL Academy, ARM education STMicroelectronics	1.8.2022 to 5.8.2022
3.	Faculty Development Program on Machine Learning	ABES Engg. College, Ghaziabad	11.1.2021 to 15.1.2021

4.	Workshop on Inculcating Universal Human Values in Technical Education	AICTE	19.8.2020 to 21.8.2020
5.	Short Term Training Programme on Data Analytics and Machine Learning	Amal Jyothi College of Engineering, Kanjirappally	3.8.2020 to 8.8.2020
6.	Faculty Development workshop on “Writing and Publishing Quality Research Papers in Scholarly Top Tier Journals	RMD Sinhgad School of Engineering, Warje, Pune	19.7.2020 to 20.7.2020
7.	Workshop on Security	International Centre For Advanced Research and Studies (ICARS), Delhi	6.7.2020 to 10.7.2020
8.	Webinar on Data Cleaning Services using Machine learning Algorithms	IEEE Computational Intelligence Society	5.7.2020
9.	International Technical Webinar on Alumni Perspective: Dream Big	M.G.M.’s College of Engineering Nanded	15.6.2020
10.	Workshop Data Science/ Machine Learning (Real Life Application)	Industry Institute Collaboration and Indian Engineering Teachers Association, West Bengal	25.4.2020
11.	Workshop on Basic of Research, Writing Research Papers, Academic Research Report Writing, Tools for Research	Sankara College of Science and Commerce, Saravanampatty	9.4.2020 to 10.4.2020

12.	Internet of Things	IIT, Kanpur	16.11.2019 to 20.11.2019
13.	Faculty Development Program on Universal Human Values and Professional Ethics	AKTU Lucknow	4.7.2019 to 11.7.2019
14.	ISTE workshop on Environmental Studies	IIT, Bombay	2.7.2015 to 12.7.2015
15.	ISTE workshop on Introduction to Design of Algorithms	IIT, Kharagpur	27.4.2015 to 30.5.2015
16.	ISTE workshop on Pedagogy for effective use of ICT in Engineering Education	IIT, Bombay	5.1.2015 to 31.1.2015
17.	Workshop on Embedded Systems with focus on Intel Atom Processor	UPTU, Noida	9.10.2014 to 11.10.2014
18.	Faculty Development Workshop on Embedded Systems	UPTU, Noida	5.6.2014 to 7.6.2014
19.	ISTE workshop on Computer Networking	IIT, Bombay	28.5.2014 to 5.7.2014
20.	ISTE workshop on Computer Programming	IIT, Bombay	20.5.2014 to 21.6.2014
21.	ISTE workshop on Database Management Systems	IIT, Bombay	21.5.2013 to 31.5.2013
22.	ISTE workshop on Aakash for Education	IIT, Bombay	10.11.2012 to 11.11.2012

23.	Workshop organized by Microsoft Corporation on Advanced Developer Technologies	Microsoft Corporation	9.6.2009
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<b>Membership of Professional Bodies:</b>	
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S. No.	Name of the Professional Body
1.	Life member of Indian Society for Technical Education, New Delhi

<b>Technical and Administrative Responsibilities:</b>
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Cultural Co-ordinator
Exam Form verification
Attendance co-ordinator
Sessional Marks co-ordinator
Project co-ordinator
Discipline co-ordinator
Formation of different councils for Param, Academic, Cultural, Sports and Magazine
Member of Training and Placement Committee