

Prof. Prabhjot Kaur Sidhu

(Professor, Department of IT,
Maharaja Surajmal Institute of Technology)

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Vidwan Profile Link:

<https://vidwan.inflibnet.ac.in/profile/243446>

Profile Summary

Prof. Prabhjot is an academically brilliant professional and passionate teacher with **23+ years** of teaching experience who always wanted to become a teacher as she firmly believes that the quality of education depends on the teacher's quality. She imagines that teaching has given her a platform to contribute to humanity, prosperity, and innovation. Dr. Prabhjot believes that she is in the business of building the nation by transforming and empowering her students, who are the future of the nation.

Prof. Prabhjot is passionate about research. She has been awarded **PhD twice** for her work in two different research areas. Prof. Prabhjot's first research work gave solutions in the field of medical imaging to detect tumor regions accurately out of corrupted CT scan / MRI brain tumor images. In her second research work, she provided solutions for class imbalance problems in a noisy environment using data-level approaches.

Prof. Prabhjot has authored and published **3 books, 8 Patents (01 Granted, 01-Under Examination, 06 Published) and 60+ research** papers in reputed journals and conferences (**SCIE:10, ESCI:6, Scopus:40+**). She has **777 citations with h-index:16 and i10 index: 25**. She is working closely to guide students to pursue their research work/ PhD in the field of class imbalance and security issues in IoT.

Prof. Prabhjot is ranked among **Top 2% Researchers in the World** by **Stanford University Global Ranking for the year 2020**. She was awarded **Best Researcher of the Year 2021** by CEGR (Center of Education Growth and Research) for outstanding and exemplary contribution towards education, skill development and Research. She was awarded **Best Faculty** at MSIT for the year 2012 for outstanding contribution to the institution in the academics, placement, Research & Publications, and Extra-Curricular areas. She also won the **Research excellence award** for the year 2019, 2021 and 2022.

Prof. Prabhjot is a keen learner and a student of technology. She has attended more than 30 Faculty development programs and seminars to keep her updated with the latest technology innovation and transformation.

Prof. Prabhjot has contributed significantly to the administrative progress of MSIT over the years such as convener of Joint Assessment Committee (JAC), IP Affiliation Committee, Annual Academic audit by GGSIP University; HOD of IT department; Convener of Avensis, College Magazine, Editor-in-chief of Launch edition of College Research journal, and core team members of several essential college committees, etc.

Prof. Prabhjot has committed her life to impart the best quality education to the students and teaching them the importance of ethics, values, and principles in all facets of life.

Prof. Prabhjot has always been academically excellent. She was on the merit list in matriculation and won **National Scholarship**. She was a **Gold medalist** in Thapar Polytechnic. During B.Tech., she was among the top 5 rankers consistently in all the semesters. She completed her M.Tech. with distinction.

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Educational Qualifications

Degree	Institute	Subject	Performance and Result
1st Ph. D. (Computer Science & Engineering)	GGSSIP University. (2015-2020)	“Improving the classification performance in case of noisy imbalanced data-sets using robust data level approach”	Granted: 1 Patent Under Examination: 01 Published: 7 Patents, 60+ papers in reputed International Journals and Conferences (SCIE-10, ESCI=06, SCOPUS-40+)
2nd Ph. D. (Computer Science & Engineering)	Sharda University, Greater Noida. (2010-2015)	“Soft Computing based Image Segmentation of Noisy Digital Images”	Citations: 777 H-index: 16 i10-index: 25 (Annexure – 1)
M.Tech (Information Technology)	Punjabi University, Patiala Punjab, India, (2001-2003)	Advance Computer Architecture, Advance Computer Networks, C#, Advance DBMS	1 st Division Secured 77.4 % (With Distinction)
Bachelor of Engineering (B. E.) (Computer Science & Engg.)	Sant Longowal Institute of Technology (Now Deemed University), Sangrur, Punjab. (1996-1999)	Data Structure, C programming, Computer Architecture, Computer Networks	1 st Division Secured 74.6 % (With honors) 4 th Position in the Batch
3 Year Diploma in Electrical	Thapar Polytechnic, Patiala Punjab, India, 1994	Electrical machines, Power system, Electronic Devices	1 st Division Secured 76.8 % (Gold Medalist)
Matriculation	Punjab School Education Board, 1991	English, Maths, Punjabi, Hindi, Science	1st Division Secured 84.1 % (In Punjab Merit List)

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Teaching Experience - 22+ years

1. **1st September 2023 – Till date: Professor in IT Department**, Maharaja Surajmal Institute of Technology, GGSIP University, New Delhi.
2. **5th September 2016 – 31st August, 2023: Associate Professor in IT Department**, Maharaja Surajmal Institute of Technology, GGSIP University, New Delhi.
3. **1 September 2007 – 4th September 2016:** Assistant Professor/ Reader in IT Department, Maharaja Surajmal Institute of Technology, GGSIP University, New Delhi. In this duration, I served following roles:
 - Reader in IT Department (Sep. 2007 – Dec. 2012)
 - Reader and HOD, IT Department (Jan. 2013 – July 2016)
4. **15 July-2004 – 31 August 2007:** Lecturer in IT Department, Maharaja Surajmal Institute of Technology, GGSIP University, New Delhi.
5. **28 July 2000 – 10 April 2003:** Lecturer in Punjab College of Information Technology, Punjabi University, Punjab.

Achievements & Awards

1. Ranked among **1% Topper** in the Swayam Course Titled “Teaching and Learning in Engineering (TALE)” held in Jan-June 2024.
2. 1 student has completed his Ph.D. in the year 2024.
3. **AD Scientific ranking award** for the year **2023** in World Scientist and University Ranking 2024
4. NPTEL is proud to recognize Dr. Prabhjot Kaur as an "NPTEL Star" - **NPTEL DISCIPLINE STAR** for the session Aug-Dec., 2023.
5. Ranked among 2% Topper in the Swayam Course Titled “BIG Data” held in Oct 2023.
6. Research Excellence award for publishing **quality research and grant of patent** for the year 2022.
7. Elevated to **IEEE Senior Member Grade** by IEEE Society on 26th June, 2022. Only 10% of IEEE’s more than 4,00,000 members hold this grade, which requires extensive experience and reflects professional maturity and documented achievements of significance.

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8. **AD Scientific ranking award** for the year **2022** in World Scientist and University Ranking 2023
 9. Ranked among **Top 2% Researchers in the World** by **Stanford University Global Ranking for the year 2020.**
 10. **AD Scientific ranking Award** for the year **2020** in World Scientist and University Ranking 2021.
 11. National Level “**Best Researcher Award for the year 2021**” in **15th Rashtriya Shiksha Gaurav Puraskar Ceremony** held on 7th Sep., 2021 organized by Centre for Education Growth and Research (CEGR).
 12. Successfully conducted **JEE Main (Session-I and II) and CUET-2022 Exams.**
 13. **Research Excellence Award** for the year 2019.
 14. **Double Ph.D.** holder.
 15. **Best Faculty award** for the year 2012 for outstanding contribution to the institution in the academics, Placements, Research & Publications and Extra Curricular areas.
 16. Selected as an **Editor** of International Journal of Intelligent Information Systems.
 17. Among the **top five rankers** every year in B. E. and received B.E. degree with Honors.
 18. **Gold Medal** in Diploma.
 19. **National Scholarship** in Matriculation.
 20. Selected as a **Reviewer** for following Journals and reviewed various papers
 - a. **IEEE Transactions on Fuzzy Systems**
 - b. **IEEE Transactions on Emerging Topics in Computational Intelligence**
 - c. **IET Image Processing**
 - d. **Applied Soft Computing (ASOC), Elsevier Publisher.**
 - e. **NeuroComputing, Elsevier Publisher**
 - f. **Journal of Intelligent and Fuzzy Systems (JIFS), IOS Press**
 - g. **International Journal of Advance Computer Science and Applications**
 - h. **International Journal of Engineering and Technology Research (JETR), an Academic Journal.**
 - i. **International Journal of the Physics Sciences (IJPS), an Academic Journal.**
 - j. **Engineering with Computers**

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Research Scholars (M.Tech/ Ph.D. Thesis Supervised)

S. No	Full Name of the student	Title of the Thesis	Name of the host University	Year of Awarded	Supervisor/ Co-supervisor
Ph. D. Supervised					
1.	Mr. Kamlesh Upadhyay (2019)	Class Imbalance Problem in Binary Classification	Lingaya's Vidyapeeth University, Faridabad	Completed (13 th Feb., 2024)	Co-Supervisor
2.	Ms. Poonam Sharma (2018)	Lightweight Multi-key based Authentication Mechanism for Wireless Body Area Networks	Chandigarh University, Punjab	Going On	Co-Supervisor
3.	Ms. Jyotsna Rathee (2019)	Soft Computing based Brain Tumor Identification	DCRUST, Murthal, Sonipat	Going On	Co-Supervisor
M. Tech. Thesis Supervised					
4.	Ms. Deepali Aneja	Image Segmentation of Noisy Digital Images using Fuzzy Clustering (M.Tech)	NSUT, Dwarka, New Delhi	2013	Co-Supervisor
5.	Ms. Jyoti	Review and Comparison of Fuzzy based Image Segmentation Techniques (M.Tech.)	Kurukshetra University	2014	Co-Supervisor

Roles and Responsibilities held in the College

- *HoD (1 Sep., 2023 – Till date)*
- *JAC and GGSIPU schemes, Convenor, (Sep., 2023 – Till date)*
- *Deputy HoD (2022 – Aug., 2023)*
- *NBA Coordinator of the department (2019-2023)*

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NBA co-ordinator for the department and handled all the processes which were required to file NBA documentation and its renewals.

➤ ***Governing Body member (2021 – 2023)***

Prepare the Agenda document for the meeting and organize the meeting. Preparing the minutes of meeting with the help of Director.

➤ ***Convener of Examination Cell (2021-till date)***

Conducting Mid-Term and End-Term Theory and Practical Examinations as guided by the University. Conducting various Entrance Examinations like JEE, CUET, CET etc. Communication with the University regarding any kind of Examination matter

➤ ***Coordinator, ATAL sponsored one week Online FDP***

Organized ATAL sponsored 1 week FDP on the topic “Internet of Things(IoT)-A Practical Approach. This was the first FDP organized in the college which is sponsored by ATAL (AICTE Training and Learning).

➤ ***Convener of JAC (Joint Assessment Committee) Inspection in MSIT (2019-2021)***

The Joint Assessment committee conducts JAC inspection in the college campus every year. From 2019, I am working as a convener who is responsible for every documentation required and inspection visits during that time.

➤ ***Convener of IP Affiliation Committee in MSIT (2019-2021)***

For the continuation of GGSIP Affiliation, I am responsible for every communication and documentation to be send to University.

➤ ***HOD – IT Department (Jan 2013- July 2016)***

Worked as Head of Information Technology Department from Jan 2013 to July, 2016. During this period, I handled many responsibilities like renewal and purchase of various academic softwares, handling department ISO activities, organizing various seminars and workshops for faculty and students at department level, organizing various industrial visits for the students.

➤ ***Convener, Insurance Committee (2017-2019)***

I was responsible for renewing insurance policies of MSIT building, Lifts, Fixtures, Computers and students.

➤ ***Co-convener of Annual Faculty convention Program (October 2019)***

Organized 2 days faculty convention program as a co-coordinator sponsored by ISTE.

➤ ***Member of E-Cell (2019 – November 2022)***

E-cell is the entrepreneurship cell of MSIT, which has started with the goal to initiate the spark of entrepreneurship and teach the students basic concepts, procedure, and terminology involved in entrepreneurial life, startups and ventures.

➤ ***Incubation Cell (2019 – Nov., 2022)***

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Involved as a team member in incubation cell.

- ***Core member of NISP (National Innovation and Startup Policy)(2020 – November 2022)***
NISP initiative has started by AICTE. As a team member, I am involved in implementing this initiative for MSIT by exploring various ideas, creating policy as per AICTE guidelines etc.
- ***Core Technical Committee member of ICAIA (International Conference)(7-8 Feb., 2020)***
I was the team member of Technical program committee of conference and was responsible for timely review of the assigned papers. I also organized a special session during the conference.
- ***In-Charge of Academic Audit in MSIT (2012-2018)***
Academic audit is conducted by GGSIP University every year. I worked as a convener for the year 2012, 2013, 2014, 2015, and 2016 and as co-convener for the year 2017 and 2018 who is responsible for handling Academic Audit affairs in the college.
- ***Convener, one week FDP (2018)***
Conducted 1 week faculty program sponsored by NITTTR and MHRD.
- ***Convener, Developer Student Club (DSC) (2017 – 2020)***
Developer Student Club, Maharaja Surajmal Institute of Technology (DSC-MSIT) is a community of college students powered by Google. DSC MSIT helps students to grow with the latest technology trends and student opportunities.
- ***Convener, one week FDP (2016)***
Conducted 1 week faculty program in collaboration with Computer Science department.
- ***Web site incharge (2004 – 2013)***
Responsible for updating and maintaining the web-site and uploading various notices time to time regarding admissions, attendances and other college affairs.
- ***Editor-in-Chief, SATYAM (2012-2013)***
SATYAM is the Research journal of MSIT, which started in 2012 year. I was the core team member who have started this research journal and worked as the Editor-in-chief of the journal for two consecutive years and released first two issues (Volume 1, No. 1 in July-Dec. 2012, Volume 1, No. 2 in Jan.- June 2013) of the SATYAM.
- ***Software Incharge***
Handling the responsibility for purchasing Softwares for IT and CSE branches for the year 2019-2020 and have done it many times before 2013 as a department responsibility.

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➤ *Convever, Avensis (2008)*

Avensis is the inter-college technical festival of MSIT, wherein many colleges from Delhi and NCR participate. I was responsible for conducting the activities held during the two days event including night activities.

➤ *Editor-in Chief, Vision (2009)*

Vision is the college Annual magazine released by MSIT. I was responsible for doing every work required for printing the magazine which includes inviting various technical and non-technical articles, designing the pages, inviting quotations for printing the college magazine and going through the whole process of printing the magazine.

➤ *University Subject Co-ordinator*

Assigned the responsibility of setting paper for all the affiliated colleges of GGSIP University many times for the following subjects

- Mobile Computing
- E-Commerce and ERP
- Web Site Designing

➤ Other than the above major responsibilities I have also handled various other responsibilities at the department level and as a team member like *Project Co-ordinator, Placement co-ordinator, Proctor, Mentor, Sports and Cultural activities, Techfest.*

Conferences / Workshops / Seminars Organized:

1. Organizing member in the TPC team of the International Conference on Artificial Intelligence and Applications (ICAIA 2024) on 19th -20th March, 2024.
2. Organized a session as session chair in the International Conference on Artificial Intelligence and Applications (ICAIA 2024) on 20th March, 2024.
3. Organized One week STC on “Digital Tools for Teaching and Learning” sponsored by NITTTR, Chandigarh from 11-15 March, 2024 as Coordinator.
4. Organized One week FDP on “Recent Advancements in Machine Learning and Artificial Intelligence” from 6-10 Feb., 2023 as a team member.
5. Organized One week ATAL sponsored FDP on the topic “Internet of Things-A Practical Approach” from 6-10 Dec., 2021 as Convener.
6. Organized One week AICTE/ISTE sponsored refresher program on “Skill Development for Entrepreneurs” from 27 Dec., 2021 to 1 Jan., 2022 as a Core Team member.

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7. Invited talk / Expert Lecture on the topic “Role of IoT in Medical Sector” in 5 days Online FDP “IoT innovations and Implications for IT environment” organized by Amity University, Noida from 23rd – 27th August, 2021.
 8. One week FDP on “Recent Advancements and Challenges in IT” from 8th March., 2021 to 12th March, 2021 as a team member
 9. Conducted a special session in the International Conference on Artificial Intelligence and Applications (ICAIA 2020) on 7th Feb., 2020.
 10. Two days faculty convention program sponsored by ISTE as a co-convener on 30-31 Oct., 2019.
 11. One week FDP on “Data Science using R” sponsored by NITTTR from 26th Nov., 2018 to 30th Nov., 2018.
 12. One day expert lecture on “Latest Trends in IT” on 1st October, 2016 by Mr. Ashish Chopra, Erricsson, Gurgaon.
 13. One week FDP on “Emerging Trends in Information Technology” from 29th Feb., 2016 to 4th March, 2016.
 14. Special session on “Applications of Soft Computing: A fusion of Foundations, Methodologies and Applications” as a Chairperson during INDIACom-2016, 3rd International Conference on “Computing for Sustainable Global Development” sponsored by IEEE. (IEEE Conference ID:37465)
 15. Special session on “Advances in Speech, Image and Language Processing for Human Machine Communication” as a TPC (Technical Programme Committee) member during the Conference “CSI-2015” , held on 2nd -5th Dec., 2015, sponsored by CSI and NCR Chapters.
 16. One day workshop on “Basic Internet and Cyber Security” on 5th Nov., 2015 for 2nd year IT.
Resource Person: i3indya Technologies.
 3. Inter-College Debate on “Who plays a vital role in developing a clear/transparent society – Citizen or System?” sponsored by BHEL on 29th Oct., 2015.
 4. One day Seminar on “Entrepreneurial Outlook Development” on 20th Nov., 2015.
 5. One day Expert Talk on “Microsoft .NET and First Interview Tips by Industry Experts” on 16th Oct., 2015.

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17. One day Seminar “Effective communication- Creating your personal branding, facing interviews, building your resume” on 30th Sep., 2015.
18. One day seminar on “Software Reliability” on 21st March, 2015.
19. One day seminar on “Agile ways of working in Industries” on 30th Jan., 2015.
20. One day seminar on “Upcoming Technologies in IT” on 17th Nov., 2014.
21. One day seminar on “Stress & Anger Management and SWOT Analysis” on 16th Oct., 2014.
22. One day seminar on “Current Trends and Technologies” on 27th Aug., 2014.
23. Two days Workshop on “Hack-A-Thon” on 12th – 13th April, 2014.
24. One day seminar on “Personal Branding and Entrepreneurship” on 21st March, 2014.
25. One day seminar on “Latest Trends in IT (Big Data, Hadoop, Windows Azure)” on 7th Sep., 2013.
26. One day seminar on “Microsoft Internship Preparation” on 29th Aug., 2013.
27. One day seminar on “Android Application and its market” on 14th Aug., 2013.
28. One day seminar on “Web Usage Mining” on 9th March, 2013
29. One day seminar on “Case Study: Communication Media & Internet” on 20th April, 2012.
30. One day seminar on “Green Computing” on 01st Oct., 2011.
31. One day seminar on “Cloud Computing” on 20th Nov., 2010.
32. One day seminar on “ERP” on 20th Nov., 2004.

BOOKS and JOURNALS PUBLISHED:

S No.	Title of Book/Journal	Publisher	National/ International	Volume and Issue no. (in case of journal)	Year of Publicatio n
1.	Data Wrangling- Concepts, Applications and Tools ISBN: 978-1- 119-87968-8	Wiley, Scrivener (Scopus Indexed)	International	-	2023

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2.	Robust Data Clustering ISBN: 978-3-659-32377-5	LAMBERT Academic Publishing, Germany	International	-	2013
3.	Kernel based Fuzzy Clustering for Robust Image Segmentation ISBN: 978-3-659-28160-0	LAMBERT Academic Publishing, Germany	International	-	2012
4.	Satyam, College Research Journal	MSIT	College, Editor-in-Chief	Volume 1, Number 1	2012
5.	Satyam, College Research Journal	MSIT	College, Editor-in-Chief	Volume 1, Number 2	2013

MEMBERSHIP OF PROFESSIONAL BODIES:

S No.	Name of the Professional Body	Member/Fellow	Remarks
1.	IEEE	Senior Member	Membership ID:90526150
2.	CSI	Lifetime Member	Membership ID: I1500056
3.	ISTE	Lifetime Member	Membership ID: LM 89810
4	CEGR	Lifetime Member	Membership ID: LT1119

Workshop/Conference/FDP Attended:

Sr. No	Title of QIP/FDP/Workshop	Duration	Organization
1	Digital Tools for Teaching and Learning	1 Week (11-15 March 2024)	NITTTR
2	Teaching and Learning in Engineering (TALE)	4 Weeks (Jan-Feb., 2024)	Swayam
3	STC on Stress Management	1 Week (15-19 Jan, 2024)	NITTTR
4	Big Data	8 weeks (Sep.-Oct., 2023)	Swayam
5	Blockchain and its Applications	12 week (Jan.-April 2023)	Swayam

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6	Re-Inventing Education Paradigm in India	20-24 Feb., 2023	MSI
7	Recent Advancement in Machine Learning and Artificial Intelligence	6-10 Feb., 2023	MSIT
8	Industrial training program on Deep Learning	21 st Nov., 3 rd Dec., 2022	Brain Mentors
9	Accreditation of Undergraduate Engineering Programme	8 week (July-Sep. 2022)	Swayam
10	Introduction to IoT	12 week (July.-Oct. 2022)	Swayam
11	Computer Networks and Internet Protocol	12 week (Jan.-April 2022)	Swayam
12	Database Management System	8 week (Jan.-March 2022)	Swayam
13	Internet of Things(IoT)- A practical Approach	One week (Dec. 6-10, 2021)	MSIT. (ATAL)
14	Workshop on Data Science	15-26 Nov., 2021	Brain Mentors
15	Python for Data Science	4 week (July-Aug 2021)	Swayam
16	Data Analytics	One week (July 5-July 9, 2021)	Centre of E-Governance (ATAL)
17	Online Orientation Training programme for Mentors	One week (June 21-25, 2021)	AICTE
18	Internet of Things using Raspberry Pi	One week (March 30-April 3, 2021)	FinLand Labs
19	Recent Advancements and Challenges in IT	One week (March 8-12, 2021)	IT, MSIT
20	Refresher/Induction program on Use of ICT in Engineering Education	6 days (Feb., 24 – March 2, 2021)	ISTE/AICTE Sponsored
21	Sensors Technology	One week (Jan. 4-8, 2021)	SRM institute of Sci. & Tech. (ATAL)
22	Data Science using Python	One week (Dec. 28-Jan 1, 2021)	4Achievers Pvt. Ltd
23	Internet of Things (IoT)	One week (Dec. 7-11, 2020)	IIIT, Allahabad (ATAL)
24	Deep learning using Medical Data	One week (Nov. 16-20, 2020)	IIT, Roorkee
25	Refresher Course: Internet of Things: A project based learning using Virtual IOT lab	10 days(8-17 July, 2020)	NITTTR, Chandigarh
26	Evaluation and Setting of Question Papers	One week AICTE and MHRD sponsored FDP (May 25 th to 29 th 2020)	NITTTR, Chandigarh

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27	Big Data Analysis	One week AICTE and MHRD sponsored FDP (May 18 th to 22 nd 2020)	NITTTR, Chandigarh
28	Research oriented project Work	One week AICTE and MHRD sponsored FDP (May 11 th to 15 th 2020)	NITTTR, Chandigarh
29	Cloud, Fog and Edge Computing	One week AICTE and MHRD sponsored FDP (April 14 th to 18 th 2020)	NITTTR, Chandigarh
30	Neural Network and CNN	One week AICTE and MHRD sponsored FDP (April 09 th to 13 th 2020)	NITTTR, Chandigarh
31	Machine Learning using Python	One week AICTE and MHRD sponsored FDP (March 02 nd to 6 th 2020)	Brain Mentors Pvt. Ltd.
32	Faculty Development: Planning and Management for Institutional Excellence	One week AICTE and MHRD sponsored FDP (Nov. 18 th to 22 nd Nov. 2019)	NITTTR, Chandigarh
33	Contemporary Issues and Challenges in Management, Education and Information Technology	One week FDP (Feb. 05 th to 9 th 2019)	MSIT
34	Open Source Technologies	One week AICTE and MHRD sponsored FDP (Dec. 03 rd to 7 th Dec. 2018)	NITTTR, Chandigarh
35	Data Science using R	One week AICTE and MHRD sponsored FDP (Nov. 26 th to 30 th Nov. 2018)	NITTTR, Chandigarh
36	Modeling and Simulation using Matlab through ICT	One week AICTE and MHRD sponsored FDP (May 21 st to 25 th May 2018)	NITTTR, Chandigarh
37	Wireless Networks	One week AICTE and MHRD sponsored FDP (22 nd May,2017-26 th May, 2017)	NITTTR, Chandigarh
38	Web based Designing	One week AICTE and MHRD sponsored FDP (15 th May,2017-19 th May, 2017)	NITTTR, Chandigarh
39	Use of ICT in Education for Online and Blended learning	Four week AICTE and MHRD approved FDP (2 nd May, 2016 – 10 th July, 2016)	IIT, Bombay (Held under MHRD)

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40	Artificial Neural Networks	One week AICTE and MHRD sponsored FDP (25 th April.,2016-29 th April, 2016)	NITTTR, Chandigarh
41	Emerging trends in Information Technology	One week ISTE & GGSIPU sponsored FDP (29 th Feb.,2016-4 th March, 2016)	MSIT
42	Scilab Programming	One week AICTE approved on “SciLab Programming (Nov 16, 2015 to Nov. 20, 2015)	NITTTR, Chandigarh
43	7 QC Tools	One Day (10 th Nov., 2014)	QGS Training Institute
44	Computer Programming	Two weeks ISTE Workshop (May 20, 2014 to June 21, 2014)	IIT, Bombay (Held under MHRD)
45	Implementation on Sensor Networks using NS2	Two Days Workshop 25-26 April, 2014	MSIT
46	Developments and Challenges in Cloud Computing	One Week QIP (June 10, 2013 to June 14, 2013)	IIT, Roorkee
47	Research Methods and data Analysis using SPSS	Two Days Workshop (09-10 Nov., 2012)	MSIT
48	Android technology and Mobile application	Two Days Workshop (11-12 Sep., 2012)	MSIT
49	Recent Trends in Mobile and Web Technology	One day FDP (10th March, 2012)	MSI
50	Emerging Technologies	One day FDP (3 rd March, 2012)	BVP conducted by TCS
51	Human Values and Professional Ethics	One day FDP (4th Feb., 2012)	MSIT
52	MATLAB & Simulink for Engineering Education	One Day (18 th August, 2011)	MathWorks India Pvt. Ltd.
53	Dale Carnegie Training “High Impact Teaching Skills” Mission-10x (Advance Workshop)	Two days (11-12 Nov., 2010)	Wipro
54	Emerging Trends in Technical Education	One Day (8 th May, 2010)	MSIT
55	Dale Carnegie Training “High Impact Teaching Skills” Mission-10x	One Week Workshop (08-12 Feb., 2010)	Wipro Technologies

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Courses Taught at UG and PG level

1. Introduction to IoT
2. Cloud Computing
3. Web Engineering
4. Mobile Computing
5. Computer Networks
6. Advance Computer Networks
7. Data Base Management System
8. Java Programming
9. Object Orientation through C++
10. E-Commerce and ERP
11. Introduction to Programming

Area of Interest

1. IoT
2. Data Mining
3. Fuzzy Logic
4. Soft Computing
5. Image Processing
6. Class Imbalance Problem
7. Medical Imaging
8. Classification and Clustering

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Annexure-1

Patent Granted

1. Dr. Anupama Kaushik, Dr. Prabhjot Kaur Sidhu, Mr. Rakshit Satija, Dr. Nitul Dutta, Dr. Anil Kumar, “**AN EDGE COMPUTING BASED AUTOMATION SYSTEM FOR DENTAL SERVICES**” Patent Number: **396037** (Patent filed on 03/06/2021 & Published on 18/06/2021, Application No: 202111024736, The Patent Office Journal No. 25/2021 dated 18/06/2021, Part 1 & Page No: 27304) .

Patent Published

2. Dr. Prabhjot Kaur, Ronish Singh, Dr. Anupama Kaushik, Dr. Puneet Azad, Dr. Kavita Sheoran, Prof. Kamaljit Singh, Prof. Krishan pal Singh, “**IoT BASED SMART COMPLAINT BOX**” (Patent No.:, filed on 15/01/2021 & Published on 22/01/2021, Application No: **202111001925**, The Patent Office Journal No. 04/2021 dated 22/01/2021, Part 1 & Page No: 3103)
3. Dr. Prabhjot Kaur, Dr. Gaurav Dubey, Mr. Harivans Pratap singh, Dr. Charu Aggarwal, Dr. Vikas Yadav, Dr. Kavita Sheoran, Dr. Geetika Dhand, Ms. Shaily Malik, “**IoT BASED SMART SHOES FOR CHILD HEALTH MONITORING**” (Patent filed on 20/03/2021 & Published on 26/03/2021, Application No: **202111011966**, The Patent Office Journal No. 13/2021 dated 26/03/2021, Part 1 & Page No: 15291)
4. Dr. Gaurav Dubey, Mr. Harivans Pratap Singh, Dr. Anil Kumar, Dr. Prabhjot Kaur, Dr. Kavita Sheoran, Dr. Geetika Dhand, Dr. Anupama Kaushik, Ms. Gitanjali Sharma “**METHOD AND ELECTRONIC DEVICE FOR MONITORING USER IN WORK SITE**” (Patent filed on 20/03/2021 & Published on 26/03/2021, Application No: **202111011965**, The Patent Office Journal No. 13/2021 dated 26/03/2021, Part 1 & Page No: 15290)
5. Dr. Gaurav Dubey, Mr. Harivans Pratap Singh, Dr. Akash Punhani, Dr. Prabhjot Kaur, Dr. Kavita Sheoran, Dr. Geetika Dhand, Dr. Anupama Kaushik, Dr. Nishtha Jatana, “**METHOD AND ELECTRONIC DEVICE FOR PERSONALIZING USER ACTIVITY IN VIRTUAL**” (Patent filed on 20/03/2021 & Published on 26/03/2021, Application No: **202111011967**, The Patent Office Journal No. 13/2021 dated 26/03/2021, Part 1 & Page No: 15292)
6. Dr. Naresh Kumar, Dr. Prabhjot Kaur, Dr. Adeel Hashmi, Dr. Neeru Rathee, Dr. Sudesh Pahal, Dr. Jyoti Yadav “**POINT TO POINT REGRESSION ANALYSIS-BASED BIG DATA PROCESSING USING MACHINE LEARNING**” (Patent filed on 18/04/2021 & Published on 21/05/2021, Application No: **202111017897**, The Patent Office Journal No. 21/2021 dated 21/05/2021, Part 1 & Page No: 24151)
7. Dr. Gaurav Dubey, Dr. Monika Arora, Dr. Prabhjot Kaur Sidhu, Dr. geetika Dhand, Dr. Kavita Sheoran, Dr. Anupama Kaushik, Pooja Kherwa, Sonika Malik, Surender Singh, Preeti

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Rathee, **“METHOD FOR TRANSLATING SIGN LANGUAGE USING CONVOLUTIONAL NEURAL NETWORK”** (Patent filed on 15/09/2021 & Published on 15/10/2021, Application No: **202111041578**, The Patent Office Journal No. 42/2021 dated 15/10/2021).

8. Dr. Prabhjot Kaur Sidhu, Dr. Anupama Kaushik, Ms. Shivani Chauhan, Mr. Ayush Das, Dr. Kavita Sheoran, Dr. Geetika Dhand, **“IOT BASED E-CHALLAN SYSTEM FOR REAL-TIME FACE MASK DETECTION FOR TRANSPORT ENFORCEMENT”** (Patent filed on 16/05/2022 & Published on 20/05/2022, Application No: **202211028015**)

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1. Jyotsna Rathee, Prabhjot Kaur, Ajmer Singh (2024), **“Advancing Brain Tumor detection in Noisy environments using Quantum-Assisted MRI scan utilizing Interval Type-2 Fuzzy sets”**, accepted in Fluctuation and Noise Letters, **SCIE indexed** (IF:1.2), World Scientific. ISSN: 0219-4775
2. P. Kaur et al. (2024), **“Effort Forecasting Approach for New Generation Agile Projects”**, accepted in Int. J. of Grid and Utility Computing, **ESCI** (IF:0.5), SCOPUS indexed, Inderscience Pub. ISSN: 1741-8488
3. P. Sharma, K. S. Saini and P. K. Sidhu (2024), **“ Utilizing Quantum enhanced Dynamic clustering for optimized path selection in WBAN featuring Optical Biosensors Technology,”** accepted in Proceedings of Engineering Science (PES), **SCOPUS** indexed journal (Presented). ISSN: 2620-2832
4. P. Kaur et al. (2024), **“Sign Sensei: Advancing Universal communication through Deep Learning”**, accepted in Proceedings of Engineering Science (PES), **SCOPUS** indexed journal (Presented). ISSN: 2620-2832
5. Jyotsna Rathee, Prabhjot Kaur, Ajmer Singh (2024), **“Fuzzy Clustering based Noisy Image Segmentation of MRI / CT Scan Brain Tumor Images using Different Distance Metrics as Similarity Measure”**, accepted in SN Computers, **SCOPUS** indexed. ISSN: 2661-8907
6. P. Kaur et al. (2023), **“ CODEIAL: A solution for the coders by the Coders to the Coders,”** MSIT Journal of Research TECHNOVATION 2023, 22-23 September, 2023. **ISSN: 2319-7897.**
7. Kaur P., Kaushik, A. and Singh R. (2023), **“Smart Complaint Box based on IoT and Cloud service to notify complaints”**, International Journal of Systems Assurance Engineering and Management, ISSN: 0976-4348, **UGC-CARE, SCOPUS, ESCI (IF:2.0) Indexed**
8. S. Christal, G. Uma, P. Kaur and A. Kaushik (2023), **“Heart Diseases diagnosis using Chaotic Harris Hawk optimization with E-CNN for IoMT framework”**, Information technology and Control, Vol. 52, Issue:2, pp. 500-514. ISSN: 2335-884X, **SCIE Indexed (IF: 1.1), UGC-CARE** DOI: <https://doi.org/10.5755/j01.itc.52.2.32778>

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9. Kaur P. et al. (2023), “**Talk Over: A Voice Chat Web Application based on WebRTC**”, International Journal of Computer Applications, Vol. 185, No. 15, pp. 54-58, ISSN: 0975-8887. DOI: 10.5120/ijca2023922844, [GoogleScholar](#)
10. Kaur P. et al. (2023), “**Sign language Translator using Machine Learning for communication with Deaf People**”, International Journal of Computer Applications, Vol. 185, No. 6, pp. 26-30, ISSN: 0975-8887. DOI: 10.5120/ijca2023922714, [GoogleScholar](#)
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14. Kaushik, A., Malik, S., Kaur,P. Gajwal, P., Sharma, R. (2022), “**Higgs Boson Detection by Different Machine Learning Algorithms**”, NeuroQuantology, Vol. 20, No. 15, pp. 6714-6725, 2022, [GoogleScholar](#),
15. Kaur, P., Joshi, V. and Sabani T (2022), “**Decentralized Internet: An Extension of BitTorrent Network**”, GIS Science Journal, Vol. 9, Issue 1, pp. 335-343, ISSN: 1869-9391. DOI: [20.18001.GSJ.2022.V9I1.22.38506](#). [GoogleScholar](#),
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18. Upadhay K., Kaur, P. and Prasad SVAV (2021), “**State of the Art on Data level methods to address Class Imbalance Problem in Binary Classification**”, GIS Science Journal, Vol. 8, Issue 3, pp 875-903. ISSN: 1869-9391.DOI: [20.18001.GSJ.2021.V8I3.21.36755](#) [GoogleScholar](#),
19. Kaur, P., Chaira, T. (2020), “**A novel fuzzy approach for segmenting medical images**”, Soft Comput (2021), Vol. 25, pp 3565-3575. <https://doi.org/10.1007/s00500-020-05386-6>. Springer, [SCIE Indexed \(IF: 4.1\)](#), [UGC-CARE](#) ISSN: 1433-7479.
20. Kaur P., Gosain A. (2020), “**GT2FS-SMOTE: An Intelligent Oversampling approach based upon General Type2 Fuzzy Sets to detect Web Spam.**”, Arabian Journal for Science and Engineering 46, 3033-3050 (2021), Springer. [SCIE Indexed \(IF: 2.9\)](#), [UGC-CARE](#) ISSN: 2191-4281.
21. Kaur, P., Gosain, A. (2020), “**Robust hybrid data-level sampling approach to handle imbalanced data during classification**”, Soft Comp. 24, 15715-15732 (2020). <https://doi.org/10.1007/s00500-020-04901-z>. Springer, [SCIE Indexed \(IF: 4.1\)](#), [UGC-CARE](#) ISSN: 1433-7479.

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22. Kaur P, Sharma P, Palmia A. (2020), “**Fuzzy clustering-based image segmentation techniques used to segment magnetic resonance imaging/computed tomography scan brain tissues: Comparative analysis.**”, *Int J Imaging Syst Technol*, 30 (4), 1294-1323, 2020. <https://doi.org/10.1002/ima.22439> **SCIE Indexed (IF: 3.3)**, **UGC-CARE** ISSN: 1098-1098
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25. Kaur P., Gosain A. (2019), “**Empirical Assessment of Ensemble based Approaches to Classify Imbalanced Data in Binary Classification**”, *International Journal of Advanced Computer Science and Applications*, Vol. 10, No. 3, pp. 48-58, 2019. ISSN: 2156-5570 (**UGC-CARE**), **SCOPUS**, **ESCI(IF:0.9) Indexed** DOI: [10.14569/IJACSA.2019.0100307](https://doi.org/10.14569/IJACSA.2019.0100307)
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27. Kaur, Prabhjot, Soni A.K., Gosain, Anjana (2013), “**Image Segmentation of Noisy Digital Images using Extended fuzzy c Means Clustering Algorithm**” *International Journal of Computer Applications in Technology (IJCAT)*, Vol. 47, Nos. 2/3, pp. 198-205. ISSN: 0952-8091. Indexed in **UGC-CARE**, **ESCI (IF:1.1)**, **SCOPUS**, **DBLP**, **Ei COMPENDEX**, **INSPEC (IEE)**. SJR: 0.25 Publisher: **INDERSCIENCE (UK)** (DOI: [10.1504/IJCAT.2013.054352](https://doi.org/10.1504/IJCAT.2013.054352))
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Research Papers Published in Book Chapters

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42. Sharma P., Kaur P., Saini K. (2021) **Secure Protocols for Biomedical Smart Devices**. In: Kumar, Singh, Saini (eds) **Cybersecurity: Ambient Technologies, IoT, and Industry Implications**, Taylor and Francis, **CRC Press, ISBN 9781003145042**
43. Kaur P., Gosain A. (2018) **Comparing the Behavior of Oversampling and Undersampling Approach of Class Imbalance Learning by Combining Class Imbalance Problem with Noise**. In: Saini A., Nayak A., Vyas R. (eds) **ICT Based Innovations. Advances in Intelligent Systems and Computing**, vol 653. **Scopus Indexed, Springer, Singapore**. ISBN 978-981-10-6602
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Annexure-2

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