



DEPARTMENT OF COMPUTER SCIENCE
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL



Title	First Name	Last Name	Photograph
Designation	SHEETAL RAJPAL		
Address	Assistant Professor		
Phone No Office	ND-45, First Floor, Pitampura, New Delhi-110034		
Residence			
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Educational Qualifications			
Degree	Institution	Year	
Ph.D. Computer Sc.	Department of Computer Sc., University of Delhi	2016-22	
M.Sc. Computer Sc.	Department of Computer Sc., University of Delhi	2011-13	
B.Sc.(Hons) Comp. Sc.	Hans Raj College, University of Delhi	2008-11	
Career Profile			
Working as Assistant Professor in Department of Computer Science, Dyal Singh College since Aug 2013			
Administrative Assignments			
Member of committees: Technical Events Committee, Lecture Series and Events Committee, Admission Committee, and Time-Table Committee			
Areas of Interest / Specialization			
Deep Learning, Bioinformatics, Image Processing			
Subjects Taught			
Machine Learning (B.Sc. Hons. Computer Science), Data Mining (B.Sc. Hons. Computer Science), Theory of Computation (B.Sc. Hons. Computer Science), Programming using Python (B.Sc. Hons. Computer Science, GE), Computer System Architecture (B.Sc. Hons. Computer Science, B.Sc. Physical Science Computer Science), Problem Solving using Computers (B.Sc. Physical Science Computer Science), Operating System(Prog.), DBMS (B.Sc. Hons. Computer Science, B.Sc. Physical Science Computer Science, GE), Data Structures (B.Sc. Hons. Computer Science), Computer Graphics (B.Sc. Hons. Computer Science), Analysis of Algorithms and Data Structures (B.Sc. Physical Science Computer Science)			
Publications			
1. Dwivedi, Kountay, Ankit Rajpal, Sheetal Rajpal, Manoj Agarwal, Virendra Kumar, and Naveen Kumar. "An explainable AI-driven biomarker discovery framework for Non-Small Cell Lung Cancer classification." Computers in Biology and Medicine (2023): 106544.			

2. Rajpal, Sheetal, Manoj Agarwal, Ankit Rajpal, Navin Lakhyani, Arpita Saggar, and Naveen Kumar. "COV-ELM classifier: an extreme learning machine based identification of covid-19 using chest x-ray images." *Intelligent Decision Technologies* (2022): 193-203.
3. Rajpal, Sheetal, Manoj Agarwal, Virendra Kumar, Anamika Gupta, and Naveen Kumar. "Triphasic DeepBRCA-A Deep Learning-Based Framework for Identification of Biomarkers for Breast Cancer Stratification." *IEEE Access* 9 (2021): 103347-103364.
4. Rajpal, Sheetal, Navin Lakhyani, Ayush Kumar Singh, Rishav Kohli, and Naveen Kumar. "Using handpicked features in conjunction with ResNet-50 for improved detection of COVID-19 from chest X-ray images." *Chaos, Solitons & Fractals* 145 (2021): 110749.
5. Subodh Kumar, Ankit Rajpal, Neeraj Kumar Sharma, Sheetal Rajpal, Anand Nayyar, and Naveen Kumar. "ROSEmark: Robust Semi-blind ECG Watermarking Scheme using SWT-DCT Framework." *Digital Signal Processing* (2022): 103648.
6. Naveen, K., & Sheetal, T. (2017). *Python Programming: A Modular Approach*. Pearson Education India.
7. Kumar, Naveen, Anita Goel, Hema Banati, Sheetal Taneja, Shikha Badhani, Jyoti Talreja Wassan, and Mona Adlakha. "IT Tools". *Class XI Student Handbook (Information Technology Vocational Course)*. CBSE, July 2016. ISBN 978-81-929704-20-2
8. Kumar, Naveen, Anita Goel, Hema Banati, Rakhi Saxena, Sheetal Taneja, and Shikha Malik. "Database Management Applications". *Class XII Student Handbook (Information Technology Vocational Course)*. CBSE, February 2016. ISBN 978-81-929704-20-4

Workshops and Faculty Development Programmes Attended

1. Participated in ACM Compute, 14th Annual Conference, organized by Department of Computer Science, University of Delhi, during 18-20 November 2021.
2. Participated in 5-day Bootcamp on Explainable AI organized under Robert Bosch Centre for Data Science and Artificial Intelligence, IIT Madras during 24-28 August 2021.
3. Attended National Webinar on "Machine learning and its applications" organized by Department of Computer Science, Maitreyi College, University of Delhi, on 21 August 2021.
4. Participated in One-week Faculty Development Program (FDP) on "E-Content Development and Online Teaching" held from 07 February 2021 - 14 February 2021 organized by Teaching Learning Centre, Ramanujan College under the aegis of Ministry of Education PMMMMNMTT scheme.
5. Participated in Four-week Faculty Induction Program/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" held from 11 January 2021 - 09 February 2021 organized by Teaching Learning Centre, Ramanujan College under the aegis of Ministry of Education PMMMMNMTT scheme.
6. Participated in One-week Faculty Development Program (FDP) on "E-Learning and Developing MOOCs for Teaching Process in Higher Education" held from 14 December 2020 - 20 December 2020 organized by Teaching Learning Centre, Ramanujan College under the aegis of Ministry of Education PMMMMNMTT scheme.
7. Participated in ACM Compute, 14th Annual Conference, organized by Department of Computer Science, University of Delhi, during 18-20 November 2022.
8. Participated in 5-day Bootcamp on Explainable AI organized under Robert Bosch Centre for Data Science and Artificial Intelligence, IIT Madras during 24-28 August 2022.
9. Attended National Webinar on "Machine learning and its applications" organized by Department of Computer Science, Maitreyi College, University of Delhi, on 21 August 2022.
10. Attended webinar entitled COVID-19: Impact on Digital Media organized by Department of Computer Science, Vivekananda College on 6 May 2020.

11. Attended webinar on COVID-19 Impact, Strategies for Education and Challenges in Virtual Learning organized by Sri Guru Gobind Singh College of Commerce on 12 May 2020.
12. Participated in National Level Workshop: A Trend Towards Machine Learning: Techniques and Applications organized by Department of Computer Science, Deen Dayal Upadhyaya College, held during December 26, 2017- January 1, 2018.
13. Attended Third Lecture Workshop on Women in Science: A Career in Science organized by Science Foundation, Department of Computer Science, Deen Dayal Upadhyaya College, DU on September 6, 2017.
14. Participated in the International Workshop on Big Data Analytics (WBDA-2017) organized by School of Computer and System Sciences, JNU held during March 17-18, 2017.
15. Participated in Capacity Building Workshop on e-content creation in Computer Science organized by Institute of Lifelong Learning, University of Delhi held on September 30, 2016.

Conference Organization/ Presentations

1. Abstract titled "Deep Learning Based Model for Breast Cancer Subtype Classification" presented at virtual international conference on SCOTA held during 26-27 March 2021 at BIT Mesra, Ranchi. [Full Paper communicated; it will be published in Springer Proceedings in Mathematics and Statistics # 10533]
2. Abstract titled "Gene Signature Identification for Breast Cancer Classification" presented at virtual international conference on SCOTA held during 26-27 March 2021 at BIT Mesra, Ranchi. [Full Paper communicated; it will be published in Springer Proceedings in Mathematics and Statistics # 10533]

Awards and Distinctions

1. Resource person in 2 sessions in FDP on Essentials of Python organized by University of Delhi for capacity building towards NEP Skill Enhancement Courses held on October 27, 2022 - November 04, 2022
2. Resource person in a one-day workshop titled "Exploring Python as a tool for Data Science" at Dyal Singh College held on August 30, 2019.
3. Resource person in a two-day workshop on 'Data Analytics Using Python' held on 06th-7th Mar 2019 at DDUC.
4. Delivered a lecture on "Database Connectivity" at Kendriya Vidyalaya, Delhi Cantt. on 31st December, 2018.
5. Resource person in a two-day workshop for Computer Teachers on the Topic "Python Programming" at Mira Model School, Janak Puri during 17th - 18th May, 2018.
6. Resource person in a two-day workshop for Computer Teachers on the Topic "Python Programming" at St. Mark's Sr. Secondary Public School, Janak Puri during 19th - 20th May, 2018.



Signature of Faculty Member