ANKIT RAJPAL

Academic Qualifications

Degree	Year	Institution	Board/University	Marks
Ph.D. Computer Science*	2019	Department of Computer Science	University of Delhi	NA
M.Sc. Computer Science	2009	Department of Computer Science	University of Delhi	84.26%
B.Sc. (Hons.) Computer Science	2007	Deen Dayal Upadhyaya College	University of Delhi	82.57% (2nd Position in University)

***Thesis title:** Watermarking Schemes of Images and Videos using Extreme Learning Machine and its Variants

PhD Guidance

Awarded (01)

- 2024, Kountay Dwivedi, An Explainable AI-driven Approach to Non-Small Cell Lung Cancer Biomarkers Discovery (jointly with Prof. Naveen Kumar)

Pursuing (03)

- Rashika Bagri (Joining Date: 03 February 2022)
- Madhu Kashania (Joining Date: 15 February 2023)
- Bhomic Kaushik (jointly with Prof. Naveen Kumar) (Joining Date: 23 October 2023)

Related Qualifications

- Qualified **UGC National Eligibility test (NET)** for Lectureship, Dec 2012.
- Qualified **GATE-2013** with 98.63 percentile.

Research Profile

Research Publication Award/ Grant

- A sum of Rs. 100,000/- based on CiteScore from Scopus for the published research paper titled "XAI-MethylMarker: Explainable AI Approach for Biomarker Discovery for Breast Cancer Subtype Classification using Methylation Data" in the Q1 journal by the Institution of Eminence, University of Delhi.

Patent

- **Ankit Rajpal**, Anurag Mishra, and Rajni Bala**. System and method for watermarking MPEG-4 Advanced Video Coding (AVC) videos. Indian Patent Office, assignee. Patent 346917. 16 Sept. 2020.**

Journal Publications

- Gaurav Pandey, Rashika Bagri, Rajan Gupta, **Ankit Rajpal**, Manoj Agarwal, Naveen Kumar. " Robust Weighted General Performance Score for Various Classification Scenarios." Intelligent Decision Technologies (2024). (Impact Factor: 0.6, SCIE(Q4)) Accepted for Publication

- **Ankit Rajpal**, Rashmi Mishra, Sheetal Rajpal, Kavita, Varnika Bhatia, Naveen Kumar. "Explaining Deep Learning-Based Leaf Disease Identification." Soft Computing (2024). (Impact Factor: 3.1, SCIE (Q2)) Accepted for Publication

- Kountay Dwivedi, Anshuman Gupta, **Ankit Rajpal**, Naveen Kumar. (2024). Deep learning-based NSCLC classification from whole-slide images: Leveraging expectation-maximization and InceptionV3. Procedia Computer Science, 235, 2422–2433. DOI: https://doi.org/10.1016/j.procs.2024.04.229

- Kountay Dwivedi, **Ankit Rajpa**l, Sheetal Rajpal, Virendra Kumar, Manoj Agarwal, Naveen Kumar." XL_1R-Net: Explainable AI-driven Improved L_1-Regularized Deep Neural Architecture for NSCLC Biomarker Identification." Computational Biology and Chemistry (2024): Vol 108, 107990. (Impact Factor: 2.6, SCIE(Q2)) DOI: https://doi.org/10.1016/j.compbiolchem.2023.107990

- Kountay Dwivedi, **Ankit Rajpa**l, Sheetal Rajpal, Virendra Kumar, Manoj Agarwal, Naveen Kumar. "Enlightening the Path to NSCLC Biomarkers: Utilizing the Power of XAI-guided Deep Learning." Computer Methods and Programs in Biomedicine (2024): Vol. 243, 107864. (Impact Factor: 4.9, SCIE(Q1)) DOI: **https://doi.org/10.1016/j.cmpb.2023.107864**

- **Ankit Rajpal**, Subodh Kumar, Neeraj Kumar Sharma, Ajith Abraham, Anurag Mishra, Naveen Kumar. "CXRmark: A Watermarking Scheme for Chest X-Rays using Online Sequential Reduced Kernel ELM." Circuits, Systems and Signal Processing (2023), (Impact Factor: 1.8, SCIE (Q3)), DOI: https://doi.org/10.1007/s00034-023-02491-3

- Vanshika Dua, **Ankit Rajpal,** Sheetal Rajpal, Manoj Agarwal, Naveen Kumar. "I-FLASH: Interpretable Fake News Detector using LIME And SHAP." Wireless Personal Communications (2023), Vol. 131, 2841–2874. (Impact Factor: 1.9, SCIE (Q3)), DOI: https://doi.org/10.1007/s11277-023-10582-2

- Rashmi Mishra, Kavita, **Ankit Rajpal**, Varnika Bhatia, Sheetal Rajpal, Manoj Agarwal, Naveen Kumar. "I-LDD: an interpretable leaf disease detector." Soft Computing (2023): 1-17. (Impact Factor: 3.1, SCIE (Q2)), DOI: **https://doi.org/10.1007/s00500-023-08512-2**

- Sheetal Rajpal, **Ankit Rajpal**, Manoj Agarwal, Virendra Kumar, Ajith Abraham, Divya Khanna, Naveen Kumar. "XAI-CNVMarker: Explainable AI-based Copy Number Variant Biomarker Discovery for Breast Cancer Subtypes." *Biomedical Signal Processing and Control* (2023): Vol. 84, 104979. (Impact Factor: 4.9, SCIE (Q1)), DOI: **https://doi.org/10.1016/j.bspc.2023.104979**

- Sheetal Rajpal, **Ankit Rajpal**, Arpita Saggar, Ashok K. Vaid, Virendra Kumar, Manoj Agarwal, Naveen Kumar. "XAI-MethylMarker: Explainable AI Approach for Biomarker Discovery for Breast Cancer Subtype Classification using Methylation Data." *Expert Systems with Applications* (2023): Vol. 225, 120130. (Impact Factor: 7.5, SCIE (Q1)), DOI: **https://doi.org/10.1016/j.eswa.2023.120130**

- Kountay Dwivedi, **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): Vol. 153, 106544. (Impact Factor: 7, SCIE (Q1)), DOI: **https://doi.org/10.1016/j.compbiomed.2023.106544**

- **Ankit Rajpal**, Khushwant Sehra, Rashika Bagri, and Pooja Sikka. "XAI-FR: Explainable AI-Based Face Recognition Using Deep Neural Networks." *Wireless Personal Communications* 129, no. 1 (2023): 663-680. (Impact Factor: 1.9, SCIE (Q3)), DOI: **https://doi.org/10.1007/s11277-022-10127-z**

- **Ankit Rajpal**, Khushwant Sehra, Anurag Mishra, and Girija Chetty. "A low-resolution real-time face recognition using extreme learning machine and its variants." *The Imaging Science Journal* (2023): 1-16. (Impact Factor: 1.1, SCIE (Q4)), DOI: **10.1080/13682199.2023.2183544**

- Neeraj Kumar Sharma, Subodh Kumar, **Ankit Rajpal**, and Naveen Kumar. "MantaRayWmark: An image adaptive multiple embedding strength optimization-based watermarking using Manta Ray Foraging and bi-directional ELM." *Expert Systems with Applications* (2022): 116860. (Impact Factor: 7.5, SCIE (Q1)), DOI: **https://doi.org/10.1016/j.eswa.2022.116860**

- 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. (Impact Factor: 2.9, SCIE (Q2)), DOI: **https://doi.org/10.1016/j.dsp.2022.103648**

- Sheetal Rajpal, 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): 16(1), 193-203, (Impact Factor: 0.6, SCIE (Q4)), DOI: **10.3233/IDT-210055**.

- **Ankit Rajpal**, Anurag Mishra, and Rajni Bala. "A Novel fuzzy frame selection based watermarking scheme for MPEG-4 videos using Bi-directional extreme learning machine." *Applied Soft Computing* 74 (2019): 603-620, (Impact Factor: 7.2, SCIE (Q1)), DOI: **10.1016/j.asoc.2018.10.043**

- **Ankit Rajpal**, Anurag Mishra, and Khushwant Sehra. "A novel OS-ELM classifier based on HOG feature extraction and Viola Jones Algorithm for facial recognition." *Issues in Information Systems* 20, no. 2 (2019). **https://www.iacis.org/iis/2019/2_iis_2019_117-127.pdf**

- Anurag Mishra, **Ankit Rajpal**, and Rajni Bala. "Bi-directional extreme learning machine for semi-blind watermarking of compressed images." *Journal of Information Security and Applications* 38 (2018): 71-84. (Impact Factor: 3.8, SCIE (Q2)), DOI: **https://doi.org/10.1016/j.jisa.2017.11.008**

Conference Proceedings

- Madhu Kashania, **Ankit Rajpal**, Sheetal Rajpal and Naveen Kumar (2024). "Revealing the Unseen: Explainable AI-Driven Masked Face Recognition" In International Joint Conference on Neural Networks(IJCNN 2024). IEEE.

- Neeraj Kumar Sharma, Subodh Kumar, **Ankit Rajpal**, and Naveen Kumar. "DWT and Quantization Based Digital Watermarking Scheme Using Kernel OS-ELM." In Soft Computing and Optimization: SCOTA 2021, Ranchi, India, March 26–27, pp. 313-328. Singapore: Springer Nature Singapore, 2023. **DOI: https://doi.org/10.1007/978-981-19-6406-0_25**

- Shweta Wadhera, Deepa Kamra, **Ankit Rajpal**, Aruna Jain, & Vishal Jain (2021). "A Comprehensive Review on Digital Image Watermarking." In *WCNC-2021: Workshop on Computer Networks & Communications* (pp. 126-143). CEUR Workshop Proceedings (CEUR-WS.org), **Link: http://ceur-ws.org/Vol-2889/PAPER_14.pdf**

- Khushwant Sehra, **Ankit Rajpal**, Anurag Mishra, & Girija Chetty (2019). "HOG Based Facial Recognition Approach Using Viola Jones Algorithm and Extreme Learning Machine." In *International Conference on Computational Science and Its Applications* (pp. 423-435). Springer, Cham., **DOI: https://doi.org/10.1007/978-3-030-24308-1_35**

- **Ankit Rajpal**, Anurag Mishra, and Rajni Bala. "Fast digital watermarking of uncompressed colored images using bidirectional extreme learning machine" In *International Joint Conference on Neural Networks (IJCNN)*, pp. 1361-1366. IEEE, 2017. **DOI: 10.1109/IJCNN.2017.7966011**

- Anurag Mishra, **Ankit Rajpal**, and Rajni Bala. "Fast semi-blind color image watermarking scheme using DWT and extreme learning machine." In *International Conference on Computational Science and its Applications*, pp. 63-78. Springer, Cham, 2017. DOI: **https://doi.org/10.1007/978-3-319-62407-5_5**

- **Ankit Rajpal**, Anurag Mishra, and Rajni Bala. "Extreme learning machine for semi-blind grayscale image watermarking in DWT domain." In *International Symposium on Security in Computing and Communication*, pp. 305-317. Springer Singapore, 2016. DOI: **https://doi.org/10.1007/978-981-10-2738-3_26**

- **Ankit Rajpal**, Anurag Mishra, and Rajni Bala. "Multiple scaling factors based semi-blind watermarking of grayscale images using OS-ELM neural network" In *International Conference on Signal Processing, Communications and Computing (ICSPCC)*, pp. 1-6. IEEE, 2016. DOI: **10.1109/ICSPCC.2016.7753622**

- **Ankit Rajpal**, Anurag Mishra, and Rajni Bala. "Robust blind watermarking technique for color images using online sequential extreme learning machine." In *International Conference Computing, Communication and Security (ICCCS)*, pp. 1-7. IEEE, 2015. **DOI: 10.1109/CCCS.2015.7374127**

Research Projects Guided

- Mentored a M.Sc. Research Project titled "Semi-blind watermarking of grayscale and colored Images" in year 2023-24.
- Mentored a M.Sc. Research Project titled "Adaptive Basal-Glucagon Advisor for Type 1 Diabetes Management Using Deep Q Learning" in year 2023-24.
- Mentored a M.Sc. Research Project titled "Fast and Precise Automated Road-area Segmentation in Images using Deep Neural Networks" in year 2023-24.
- Mentored a M.Sc. Research Project titled "Autoencoder-Based Feature Extraction for Software Change Proneness Prediction" in year 2023-24.
- Mentored a M.Sc. Research Project titled "Multiple embedding strength optimization based semi-blind watermarking using bio-inspired algorithms" in year 2022-23.
- Mentored a M.Sc. Research Project titled "Lung cancer detection on whole-slide tissue images using patch-based weakly-supervised learning" in year 2022-23.
- Mentored a M.Sc. Research Project titled "Digital Image Watermarking" in year 2022-23.
- Mentored a M.Sc. Research Project titled "Leaf Disease Detection using Machine Learning Techniques" in year 2022-23.
- Mentored a M.Sc. Research Project titled "Fake News Detection" in year 2022-23.
- Mentored a M.Sc. Research Project titled "Leaf Disease Detection" in year 2021-22.

- Mentored a M.Sc. Research Project titled “Fake News Detection” in year 2021-22.
- Mentored a M.Sc. Research Project titled “COVID-19 Detection Using Chest X-Rays” in year 2021-22.
- Mentored a M.Sc. Research Project titled “Face Mask Detection” in year 2021-22.
- Mentored a M.Sc. Research Project titled “Face Recognition using Deep Neural Networks” during Jan-June 2021
- Mentored a M.Sc. Research Project titled “ECG Signal watermarking in DWT domain using ELM” in year 2018-19.

Journals/Conferences Editorial Board Member/ Invited Reviewer

- Nature Scientific Reports (EBM)
- IEEE Transactions on Automation Science and Engineering
- IEEE Transactions on Services Computing
- Knowledge Based Systems, Elsevier
- Applied Soft Computing, Elsevier
- Expert Systems with Applications, Elsevier
- Soft Computing, Springer
- Multimedia Systems, Springer
- The Journal of Supercomputing, Springer
- Signal, Image and Video Processing, Springer
- Technology and Health Care, IoS Press
- Intelligent Decision Technologies, IoS Press
- Information Security Journal: A Global Perspective, Taylor and Francis
- IET: Image Processing, Taylor and Francis
- Sensor Review, Emerald Publishing
- Big Data Analytics (BDA 2020)
- International Conference on Neural Networks (IJCNN)
- International Conference on Image, Video Processing and Artificial Intelligence (IVPAI2019)

Teaching Experience

College	University	Period	Position Held
Department of Computer Science	University of Delhi	Nov 2020 - Present	Assistant Professor (Regular)
Deen Dayal Upadhyaya College	University of Delhi	July 2013 – Nov 2020 July 2011 - Nov 2012	Assistant Professor (Ad-hoc)
Royal Thimphu College	Royal University of Bhutan	July 2009 - July 2011	Associate Lecturer (Regular)

Courses Taught

Jan 2024 – June 2024: MCSC 201: Machine Learning
Sep 2023 – Jan 2024: MCAC 104: Database Systems, MCAE 301: Compiler Design
Apr 2023 – Aug 2023: MCAC 202: Data Communications and Computer Networks
Jan 2023 - May 2023: MCAC 401: Compiler Design
Dec 2022- Apr 2023: MCSC 105: Data Mining

Aug 2022 - Dec 2022: MCAC 303: Automata Theory
Apr 2022 - Jul 2022: MCAC 204: Data Communications and Computer Networks
Jan 2022 - Apr 2022: MCAC 401: Compiler Design
Dec 2021 - Mar 2022: MCSC 105: Data Mining
Aug 2021 - Dec 2021: MCAC 303: Automata Theory
Apr 2021 - Aug 2021: MCSE203: Compiler Design
Apr 2021 - July 2021: RCS 002: Foundation of Computer Science
Jan 2021 - May 2021: MCAC 401: Compiler Design
Dec 2020 - Mar 2021: MCSC 105 Data Mining
Aug 2020 - Nov 2020: Theory of Computation, System Programming, Data Analysis using Python
Jan 2020 - May 2020: Artificial Intelligence, Database Management Systems
July 2019 - Nov 2019: Theory of Computation, System Programming, Office Automation Tools
Jan 2019 - May 2019: Artificial Intelligence, Database Management Systems
July 2018 - Nov 2018: Theory of Computation, Operating Systems, Office Automation Tools
Jan 2018 - May 2018: Artificial Intelligence, Database Management Systems
July 2017 - Nov 2017: Theory of Computation, Operating Systems, Office Automation Tools
Jan 2017 - May 2017: Artificial Intelligence
July 2016 - Nov 2016: Theory of Computation, Operating Systems
Jan 2016 - May 2016: Operating Systems
July 2015 - Nov 2015: Systems Programming
Jan 2015 - May 2015: Information Security, Computational Skills
July 2014 - Nov 2014: Theory of Computation, Programming Fundamentals using C++, Computational Skills
Jan 2014 - May 2014: Artificial Intelligence
July 2013 - Nov 2013: Theory of Computation, Information Technology, Computer System Architecture
July 2012 - Nov 2012: Systems Programming, Discrete Structures
Jan 2012 - May 2012: Programming Paradigms, Computer Graphics, Computational Skills
July 2011 - Nov 2011: Discrete Mathematics, System Software
Feb 2011 - June 2011: System Analysis and Design, Database Design, Algorithm Analysis
July 2010 - Nov 2010: Programming Principles using C, IT Communication Skills
Feb 2010 - June 2010: Discrete Mathematics, Introduction to Computers, Internet Technology
June 2009 - Nov 2009: Calculus-I and Numerical Analysis, IT Communication Skills

Participated as a Resource Person in the Following Workshops

- Presented a paper titled "Revealing the Unseen: Explainable AI-Driven Masked Face Recognition" at the International Joint Conference on Neural Networks organized under IEEE World Congress on Computational Intelligence held between 30 June- 05 July 2024 in Yokohama, Japan.

- Delivered two sessions in a hands-on workshop on “Data Analysis and Visualisation using Python” organized by the Department of Computer Science at Mata Sundri College for Women, University of Delhi, on 23 February 2024.

- Contributed as a Judge in Round 2 Dark Patterns Buster Hackathon held in Hansraj College, University of Delhi on 31 January 2024.

- Invited as a Judge to evaluate Robotics event in 'Geek-A-Hertz 2023' – An Annual International Computer Technical-Festival held at St. Mark’s Sr. Secondary Public School on 30 November 2023.

- Delivered two sessions in a three-day Faculty development programme on “Python in Finance” organized by IQAC, Bharati College, University of Delhi held during 23-25 November 2023.

- Invited as a subject expert/jury member to evaluate research projects in Avlokan 2023 organized by Centre of Research, Maitreyi College, University of Delhi, India on 03 November 2023.

- 30-hour Add-on course on “Fundamentals of Python” organized by Centre for Professional Development at Sri Guru Gobind College of Commerce held during 22 August 2023 - 25 September 2023.

- Delivered a talk in three weeks technical training programme: Attachment of DANICS Probationers (59th Batch) with Delhi Technological University organized by Human Resource Development Centre (HRDC) in association with Directorate of Training (Union Territories Civil services), Govt. of NCT of Delhi from 11th- 29th September 2023.

- Delivered a lecture at Faculty Development Program on "MATLAB & its Applications in AI & ML" organized by Sridev Suman Uttarakhand University, Rishikesh held during August 16-21, 2023.

- Delivered a Tutorial on “Explaining Machine Learning Decisions” at International Conference on Neural Networks (IJCNN) held in Queensland, Australia during 18-23 June 2023.

- Delivered a training programme on “Programming using Python: SQL connectivity using Python, Exception handling, Numpy and Visualization” during three-day capacity building programme for computer science teachers organized by DAV Centre for Academic Excellence, DAV College Managing Committee from 02-04 May 2023.

- Delivered three sessions as a resource person in a two-week FDP Computer Algebra Systems organized by Mahatma Hansraj Faculty Development Centre, Hans Raj College, University of Delhi in collaboration with IQAC, Ramjas College during 22 March-03 April 2023.

- Delivered two sessions on “Data Handling using Python” in a two-week online FDP organized by Department of CSE, School of Computing Department of EEE, School of Electrical Engineering Bharath Institute of Higher Education and Research, Chennai in association with National Institute of Technology, Warangal on 5-6 August 2022.

- Delivered two sessions as a resource person in a two-week FDP Python: Essentials, Programming and Analytics organized by University of Delhi in collaboration with Guru Angad DevTeaching Learning Centre of the Ministry of Education (PMMMNMTT scheme) during 27 Oct-03 Nov 2022.

- Invited as a subject expert/jury member to evaluate research projects in Avlokan 2022 organized by Centre of Research, Maitreyi College, University of Delhi, India on 28 September 2022.

- Invited as a Judge to evaluate innovative projects in ‘Geek<A/>Hertz 2022’ – An Annual International Computer Technical-Festival held at St. Mark’s Sr. Secondary Public School on 23 November 2022.

- *Computer Literacy Program using MS Office organized by Committee for Special Programs for Learners under the aegis of IQAC, Deen Dayal Upadhyaya College, University of Delhi on 29 November* 2020.

- Workshop on *Computer literacy program for Business Applications* on 18 December 2019.

- Workshop on *Python Programming* held from 15-16 November 2019 at Bal Bharati Public School, Gangaram, Delhi.

- Workshop on *Data Analytics Using Python* held on 6-7 March 2019 at Deen Dayal Upadhyaya College.

- Workshop on *Python: Programming and Applications* held from 26-28 September 2018 at Deen Dayal Upadhyaya College.

- Workshop for Computer Teachers on *Programming with Python* at Bal Bharti Public School (BBPS) Training Centre, Pitam Pura, from 16-17 March 2018.

- Workshop on *FOSS and Shell Programming* held on 18th August 2017 at Deen Dayal Upadhyaya College.

- Presented a paper titled "Fast digital watermarking of uncompressed colored images using bidirectional extreme learning machine" at the International Joint Conference on Neural Networks organized under IEEE World Congress on Computational Intelligence held between 14-19 May 2017 in Alaska, USA.

- Workshop on *Linux Foundation Training* organized under the Science Foundation Committee at Deen Dayal Upadhyaya College from 29-30 March 2017.

- Presented a paper titled " Extreme learning machine for semi-blind grayscale image watermarking in DWT domain" at the International Symposium on Security in Computing and Communication held between 21-24 September 2016 in Jaipur.

- Presented a paper titled "Multiple scaling factors based semi-blind watermarking of grayscale images using OS-ELM neural network" at the International Conference on Signal Processing, Communications and Computing (ICSPCC) held between 05-08 August 2016 in Hong Kong.

- Workshop on *Python Programming for School Teachers*, BBPS Training Centre during 8-9 September 2014**.**

Faculty Development Activities Attended

- One-week faculty development program (FDP) on Design Thinking and Innovation held from May 14, 2024, to May 21, 2024, organized by Udhmodya Foundation, Samarth Bharat, and Hansraj College in association with Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC) under PMMNMTT Scheme.

- Completed an online course on “Supervised Machine Learning: Regression and Classification” authorized by DeepLearning.AI and Stanford University and offered through Coursera from February 06, 2024 to February 25, 2024. E-certification: https://coursera.org/verify/RY5XYVGK99SP

- Two-week Faculty Development program (FDP) on "Research Methodology and Data Analysis" held from 14 December 2023 - 28 December 2023 organized by Teaching Learning Centre, Ramanujan

College, University of Delhi under the aegis of Ministry of Education PMMMNMTT scheme.

- One-week Faculty Development Program (FDP) on "Research writing and Mathematical typesetting with LaTeX" held from 07 December 2023 - 13 December 2023 organized by Teaching Learning Centre, Ramanujan College, University of Delhi in Collaboration with Ramlal Anand College, University of Delhi under the aegis of Ministry of Education PMMMNMTT scheme.

- Three-day Faculty Development Program (FDP) on Cybersecurity, High Performance Computing, AI/ML and GenAI organized by Delhi University Computer Centre, University of Delhi held during October 4-6, 2023.

- One-week Faculty Development Program (FDP) on "Python with Data Analysis" held from 07 August 2023 - 13 August 2023 organized by Teaching Learning Centre, Ramanujan College under the aegis of Ministry of Education PMMMNMTT scheme.

- Completed a MOOC titled "6.86x: Machine Learning with Python-From Linear Models to Deep Learning"- a course of study offered by MITx, an online learning initiative of the Massachusetts Institute of Technology during Feb 05, 2023 - May 19, 2023.
  E-certification: https://courses.edx.org/certificates/bf833fdf973a4492811961d98f4830d9

- International Webinar on "Digital Health" on 20th September 2022 organized by the Department of Computer Science, Maitreyi College, University of Delhi, India.

- Cybersecurity Awareness Quiz, organized by the Department of Computer Science, Maitreyi College (University of Delhi), on Cyber Jaagrookta Diwas, 06th October 2022.

- Completed an MOOC on "Computer Vision Basics" authorized by University at Buffalo, The State University of New York and offered through Coursera during August 24, 2022 to September 8, 2022. E-certification: https://coursera.org/verify/QK3A6UGFUDUL

- One-week Faculty Development Program (FDP) on "Digital Image Processing and Analysis: Applications with Practicals" organized by Department of Computer Science, Shaheed Sukhdev College of Business Studies, University of Delhi under Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi (PMMMNMTT scheme) during 25 Apr 2022 to 30 Apr 2022.

- Three-day lecture series on "NEP 2020: Delhi University Undergraduate Curriculum Framework 2022" organized by Institute of Lifelong Learning, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi on 27th – 29th January 2022.

- 5-day Bootcamp on Explainable AI organized under Robert Bosch Centre for Data Science and Artificial Intelligence, IIT Madras during 24-28 August 2021.

- National Webinar on "Machine learning and its applications" organized by Department of Computer Science, Maitreyi College, University of Delhi, on 21 August 2021.

- Three-week MOOC on "AI for Medical Diagnostics" an online non-credit course authorized by DeepLearning.AI at Stanford University offered through Coursera during February 1, 2021 – February 21, 2021. E-Certification: https://coursera.org/verify/CSFEE7HYMSZM

- 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 PMMMNMTT scheme.

- 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 PMMMNMTT scheme.

- 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 PMMMNMTT scheme.

- Special public lecture on *National Education Policy 2020 - Strategy for Self-Reliant India* on 25 August 2020.

- Webinar entitled COVID-19: Impact on Digital Media organized by Department of Computer Science, Vivekananda College on 6 May 2020.

- 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.

- Faculty Development Program (FDP) on *Teachers as Mentors* held on 24th August 2018 at Deen Dayal Upadhyaya College.

- One-week Faculty Development Program (FDP) on "Data Science and Big Data Analytics" conducted by ICT Academy from 06 March 2018 to 10 March 2018 held at Deen Dayal Upadhyaya College, University of Delhi.

- National workshop on *Plagiarism: Issues and challenges* organized by Jawaharlal Nehru University, New Delhi on 23 April 2014.

Administrative Experience

Faculty Advisor:

- Delhi University Computer Science Society (2022-till date)

- GoogleCloudReady Facilitator program (2022)

- DDUC CodeChef Chapter (2016-2020).

Member of the following committees:

- Examination Disciplinary Committee, University of Delhi (June 2024 – Present)

- Annual Report Editorial Committee, University of Delhi (2022-2024)

- NEP Implementation and Monitoring Committee, University of Delhi (March 2023-Present)
- Committee of Courses, Faculty of Mathematical Sciences (Jan 2021-Present)
- Department Research Committee (Nov 2021-Present)
- Moderation Committee (Nov 2020-Present)
- Examination Committee (2021)
- Admission Committee (2020-21)
- Purchase Committee (2021-2023)
- Data consolidation for SSR for NAAC
- India Today Ranking Committee (DDUC)
- Prospectus cum Handbook committee, DDUC
- Student activity board at DDUC.

Assisted the Organizing Chair in organizing:

- Member, Publicity Chair, **"ACM Compute 2021"**, 14th Annual Conference held during 18-20 November 2021.
- "**Workshop on Alexa Lab**" held under Industry Academia Interaction on 25 January 2020 at Deen Dayal Upadhyaya College, University of Delhi as Teacher Coordinator.
- Workshop on **Natural Language Processing** held on 13-14 February 2019 at DDUC.
- Seminar on **"Nurturing Young Graduates on Industry Readiness"** on 31 August 2018 in collaboration with ICT Academy.
- 100-hour Add-on Course on **"Online Retailing: An Industry Orientation for Undergraduate Students"** held from 01 June - 23 June 2018 under the aegis of IQAC-DDUC.
- UGC Sponsored **National Seminar on "A trend towards Machine Learning: Techniques and Applications"** at Deen Dayal Upadhyaya College on 26 December 2017 – 1 January 2018.
- Two-day workshop on **"Internet of Things"** during 6-7 March 2017 at Deen Dayal Upadhyaya College under Sanganika- the computer Science Society of the College.
- UGC Sponsored National Seminar on **"A Step towards Soft Computing Techniques and Applications"** at Deen Dayal Upadhyaya College on 18-19 March 2016 in the capacity of as a Program Committee Member.

Personal Information	
Contact Number	9911103974
Email Address	arajpal@cs.du.ac.in
Address	ND-45, First Floor, Pitam Pura, Delhi-110034
Date of Birth	30.09.1987
Linguistic Proficiency	English and Hindi
Marital Status	Married
Nationality	Indian
ORCID	https://orcid.org/0000-0002-0033-4380
Webpage	http://people.du.ac.in/~arajpal/

ANKIT RAJPAL