



**Mr. Debabrata Datta**

**Department:** Computer Science

**Designation:** Assistant Professor

**Email Id.:** [debabrata.datta@sxccal.edu](mailto:debabrata.datta@sxccal.edu)

**Qualification:** MCA, M.Tech.(CSA)(First Position), MIETE

**Short Profile:** Prof. Debabrata Datta has many years of teaching experience both at the undergraduate and postgraduate level of Computer Science and Applications. His main research interest is in the domain of data analysis. He is a Life Member of Institution of Electronics and Telecommunication Engineers. He is also attached as a technical committee member of various journals/conferences/books.

**Courses taught:**

Machine Learning, Data Warehousing and Data Mining, Cryptography and Network Security, Computer Networks, Socket Programming, Object Oriented Programming Concepts, Microprocessor, Database Management Systems, Data Structures, Introduction to Programming

**Contributions to the book chapters:**

1. Madhumita Choudhury, Durba Paul, Anal Acharya, Nisha Banerjee and **Debabrata Datta**, “Face Mask and Social Distancing Detection in Real Time”, In: Perspectives on Social Welfare Applications’ Optimization and Enhanced Computer Applications, edited by P. Sivaram et. al., IGI Global, DOI: 10.4018/978-1-6684-8306-0.ch011.
2. Anweshan Mukherjee, Rajarshi Saha, Ashwin Gupta, **Debabrata Datta** and Anal Acharya, “Sentiment Analysis using LSTM”, In: Encyclopedia of Data Science and Machine Learning, edited by John Wang, IGI Global, PP. 983 – 1006, DOI: 10.4018/978-1-7998-9220-5.ch057.
3. Soumili Dey, Suchandra Datta, Rohan Das, **Debabrata Datta**, Anal Acharya, “Crime Analysis on Spatial Domain using Machine Learning”, In: Artificial Intelligence for Societal Development and Global Well-Being, edited by Abhay Saxena, Ashutosh Kumar Bhatt, Rajeev Kumar, IGI Global, DOI: 10.4018/978-1-6684-2443-8.ch005.
4. Anal Acharya, Soumen Mukherjee, Arup Kumar Bhattacharjee, **Debabrata Datta**, Arpan Deyasi, “COVID-19: will it be a game changer in higher education in India?”, In: Data Science for COVID-19, Volume

Two: Societal and Medical Perspectives, edited by Utku Kose, Deepak Gupta, Victor Hugo C. de Albuquerque, Ashish Khanna, Elsevier, Academic Press, pp. 611 – 629, 9. <https://doi.org/10.1016/B978-0-323-90769-9.00034-7>.

5. Suchandra Datta, Soumili Dey, Anal Acharya, **Debabrata Datta**, “Blended Learning: Is It The Way Ahead?”, In: Digital Pedagogies and the Transformation of Language Education, edited by Matthew Montebello, IGI Global, pp. 227 – 249, <http://doi:10.4018/978-1-7998-6745-6.ch012>.
6. Sohail Saif, **Debabrata Datta**, Anindita Saha, Suparna Biswas, Chandreyee Chowdhury, “Data Science and AI in IoT Based Smart Healthcare: Issues, Challenges and Case Study”, In: Hassanien AE., Taha M.H.N., Khalifa N.E.M. (eds), Enabling AI Applications in Data Science as a part of Studies in Computational Intelligence, Volume 911, Springer, Cham, [https://doi.org/10.1007/978-3-030-52067-0\\_19](https://doi.org/10.1007/978-3-030-52067-0_19).
7. Soumili Dey, Suchandra Datta, Anal Acharya, **Debabrata Datta**, “A Set of Empirical Models to Evaluate E-learning Websites and Their Comparison”, In: Deyasi A., Mukherjee S., Mukherjee A., Bhattacharjee A.K., Mondal A. (eds), Computational Intelligence in Digital Pedagogy as a part of Intelligent Systems Reference Library, Volume 197. Springer, Singapore, [https://doi.org/10.1007/978-981-15-8744-3\\_2](https://doi.org/10.1007/978-981-15-8744-3_2).

### **Publications in journals and conferences:**

1. **Debabrata Datta**, Anal Acharya, Kashi Nath Dey, “Content Based Image Retrieval through Materialized View”, ZKG International (**Web of Science Indexed**), Volume VIII, Issue II, December, 2023, pp. 553 – 561, ISSN: 2366 – 1313.
2. **Debabrata Datta**, Rush Guha, Neelabha Banerjee, Sohan Adhikary, Anal Acharya, “Examination Scheduler Using A Linear-Time Graph Coloring Algorithm”, ICTACT Journal on Soft Computing (**UGC Care Listed**), Volume 12, Issue 4, July, 2022, pp. 2678 – 2684, ISSN: 0976 – 6561, DOI: 10.21917/ijsc.2022.0372.
3. **Debabrata Datta**, Anweshan Mukherjee, Soumen Mukherjee, Arup Kr. Bhattacharjee, Anal Acharya, “Image Classification using Model Ensembling”, ICTACT Journal on Image and Video Processing (**UGC Care Listed**), Volume 12, Issue 4, May, 2022, pp. 2679 – 2692, ISSN: 0976 – 9102, DOI: 10.21917/ijivp.2022.038.

4. Shiladitya Sarkar, Anal Acharya, **Debabrata Datta**, “First Solution to The Independent Set Problem”, Aviskaar, Vol 14, February, 2022, pp: 29 – 38, ISSN: 2277 – 8411.
5. Srijita Majumdar, **Debabrata Datta**, Arpan Deyasi, Soumen Mukherjee, Arup Kumar Bhattacharjee, Anal Acharya, “Sarcasm Detection and Mood Retention Using NLP Techniques”, International Journal of Information Retrieval Research (**Listed in Web of Science Emerging Sources Citation Index, IET Inspec, ACM Digital Library**), Volume 12, Issue 1, ISSN: 2155 – 6377, DOI: 10.4018/IJIRR.289952.
6. **Debabrata Datta**, Saptarshee Bhowmick, Soumyadeep Das, Sritama Das, “Brain Tumor Identification using Machine Learning Tools”, Aviskaar, Vol XII, Jan 2020, pp:49 –61, ISSN:2277 – 8411.
7. **Debabrata Datta**, Srijita Majumdar, Olie Sen, Aparna Sen, “Mood and Vulnerability Prediction through Natural Language Processing”, International Journal of Innovative Technology and Exploring Engineering (**SCOPUS indexed at the time of publication**), Volume 9, Issue 2, pp. 1335 – 1345, December, 2019, ISSN: 2278 – 3075, DOI: 10.35940/ijitee.B6158.129219.
8. **Debabrata Datta**, Abhradeep Dey, Adityam Ghosh, Rishabh Tiwari, “Generation of Facial Drawings using Generative Adversarial Networks”, International Journal of Engineering and Advanced Technology (**SCOPUS indexed at the time of publication**), Volume 8, Issue 6, pp. 746 – 750, August, 2019, ISSN: 2249 – 8958, DOI: 10.35940/ijeat.F7988.088619.
9. **Debabrata Datta**, Anubhav Kumar Roy, Suchandra Roy, Upasana Roy, “Mood Analysis using Neural Networks”, International Journal of Engineering and Advanced Technology (**SCOPUS indexed at the time of publication**), Volume 8, Issue 6, pp. 736 – 740, August, 2019, ISSN: 2249 – 8958, DOI: 10.35940/ijeat.F7987.088619.
10. Soumick Chatterjee, Pramod George Jose, **Debabrata Datta**, “Text Classification Using SVM Enhanced by Multithreading and CUDA”, International Journal of Modern Education and Computer Science (**Listed in SCOPUS and IET Inspec**), Volume 11, Number 1, pp. 11 – 23, January, 2019, DOI: 10.5815/ijmeecs.2019.01.02.

11. **Debabrata Datta**, Atindriya De, Deborupa Roy, Soumodeep Dutta, “Apriori Algorithm using Hashing for Frequent Itemsets Mining”, International Journal of Education and Management Engineering (IJEME), Volume 8, Number 6, pp. 46 – 58, November, 2018, DOI: 10.5815/ijeme.2018.06.05.
12. **Debabrata Datta**, Mark Pratik Dutta, Ranjini Mukherjee, “Improvisation in Efficiency of Apriori Algorithm for Mining Frequent Itemsets”, International Journal of Computer Sciences and Engineering (**Listed in Indian Citation Index, UGC listed at the time of publication**), Volume 6, Issue 8, pp. 424 – 428, August, 2018, E-ISSN: 2347 – 2693.
13. **Debabrata Datta**, Anisha Mitra, Debmalya Nag, Nilanjana Roy Choudhury, “Text Categorization using Apriori Algorithm”, International Journal of Computer Sciences and Engineering (**Listed in Indian Citation Index, UGC listed at the time of publication**), Volume 6, Issue 8, pp. 212 – 217, August, 2018, E-ISSN: 2347 – 2693.
14. **Debabrata Datta**, Aritra Koley, Asmita Sarkar, Sayan Chatterjee, “Precomputing Shell Fragments for OLAP using Inverted Index Data Structure”, International Journal of Computer Sciences and Engineering (**Listed in Indian Citation Index, UGC listed at the time of publication**), Vol.6, Issue 1, pp. 24 – 30, January, 2018, E-ISSN: 2347 – 2693.
15. **Debabrata Datta**, Kashi Nath Dey, "Application of Materialized View in Incremental Data Mining Operation", International Journal of Information Technology and Computer Science (**Listed in IET Inspec**), Vol.9, No.6, pp. 43 – 49, 2017, ISSN: 2074 – 9007, DOI: 10.5815/ijitcs.2017.06.06
16. Anurag Sarkar, **Debabrata Datta**, "A Frequency Based Approach to Multi-Class Text Classification", International Journal of Information Technology and Computer Science (**Listed in IET Inspec**), Volume – 9, Number – 5, 2017, pp. 15 – 22, ISSN: 2074 – 9007, DOI: 10.5815/ijitcs.2017.05.03.
17. Sourav Kumar Mitra, Payel Saha, Sayan Mukhopadhyay, **Debabrata Datta**, “Porter’s stemmer – a review”, at International Conference on Computational Science and Engineering held on 4 – 6 October, 2016 at RCC Institute of Information Technology, pp: 59 – 64, ISBN: 978-1-4987-8461-0.

18. **Debabrata Datta**, Kashi Nath Dey, Payel Saha, Sayan Mukhopadhyay, Sourav Kumar Mitra, “A Method of View Materialization using Genetic Algorithm”, at IOSR Journal of Computer Engineering, Volume – 18, Issue – 2 (March – April, 2016), ISSN: 2278 – 0661, pp: 125 – 133.
19. **Debabrata Datta**, Kashi Nath Dey, “A Soft Computing Approach of Materialized View Creation”, at the Third International Conference on Business and Information Management held on 9 – 11 January, 2016 at National Institute of Technology, Durgapur; adjudged for the **Best Paper Award** in Information Management 1 track.
20. **Debabrata Datta**, Kashi Nath Dey, “Materialized View Generation using Apriori Algorithm”, at International Journal of Database Management Systems, Volume – 7, Number – 6, December, 2015, ISSN: 0975 – 5705, pp: 17 – 27.
21. Anurag Sarkar, Saptarshi Chatterjee, Writayan Das, **Debabrata Datta**, “Text Classification using Support Vector Machine”, at International Journal of Engineering Science Innovation, Volume – 4, Issue – 11 November, 2015, ISSN: 2319 – 6734, pp: 23 – 28.
22. Amit Anand, Rabishankar Khanra, Tejan Agarwal, **Debabrata Datta**, “Incremental Data Clustering using a Genetic Algorithmic Approach”, at International Journal of Science and Applied Information Technology, Volume – 4, Number – 2, March – April, 2015, ISSN 2278 – 3083, pp: 8 – 11.
23. Prasita Mukherjee, Pritha Guha, Riya Samanta, **Debabrata Datta**, “Analysis of Kolkata as a Tourist Destination – A Data Mining Approach”, at Aviskaar, Vol VII, Jan 2015, pp:19 – 26, ISSN:2277 – 8411.
24. Sushmita Pramanik, Shubham Chatterjee, Aparajita Datta, **Debabrata Datta**, “An Algorithm on Alert Generation for Proximity Sensing in Real Time Video Streams”, at International Journal of Advances in Computer Science and Technology, Volume – 3, Number – 11, November, 2014, ISSN 2320 –2602, pp:479 – 484.
25. Aparajita Datta, Sushmita Pramanik, Shubham Chatterjee, **Debabrata Datta**, “Polychromatic Path Identification for Multiple Objects from a Video”, at International Journal of Advanced Trends in Computer

Science and Engineering, Volume – 3, Number – 4, July – August, 2014, ISSN 2278-3091, pp:71 – 75.

26. Amit Anand, Rabishankar Khanra, Tejan Agarwal, **Debabrata Datta**, “Data Clustering using a Genetic Algorithmic Approach”, at International Journal of Advanced Trends in Computer Science and Engineering, Volume – 3, Number – 4, July – August, 2014, ISSN 2278 – 3091, pp: 67 – 70.
27. Rupali Naha, Antariksha Ray, Priteem Sarkar, **Debabrata Datta**, “Moving Objects Tracking in Real Time Video and Plotting Their Path of Movement”, at International Journal of Advanced Computer Research, Volume – 4, Number – 1, Issue – 14, March, 2014, ISSN: 2249 – 7277.
28. Kashi Nath Dey, **Debabrata Datta**, “Materialized View – A Novel Approach”, at the Second International Conference on Computing and Systems – 2013 held on 21-22 September, 2013 at The University of Burdwan, pp: 280 – 282, ISBN: 978 – 9 – 35 – 134273 – 1.
29. Shreyasi Dey Das, Falguni Saha, **Debabrata Datta**, "Sales Analysis and Sales Planning of an Enterprise with a Business Intelligence Approach" at Aviskaar, Vol V, Jan 2013, pp: 30 – 38, ISSN:2277 – 8411.
30. Soumya Sen, **Debabrata Datta**, Nabendu Chaki, "An Architecture to maintain Materialized View in Cloud Computing", at the International Conference on Computing Sciences, Turing100 held on 14 – 15 September, 2012 at Lovely Professional University, Punjab, pp. 361 – 366, ISBN-13: 978 – 0 – 7695 – 4817 – 3.
31. Anal Acharya, **Debabrata Datta**, Soumen Mukherjee, "A Study on Use of ICT in Indian Education" at the UGC sponsored seminar on ICT in Higher Education-Opportunities and Challenges in the 21st Century held on 28th March, 2012 at St.Xavier's College, Kolkata (Autonomous), pp. 18 – 23, ISBN: 978 – 81 – 924140 – 0 – 3.
32. Anal Acharya, Soumen Mukherjee, **Debabrata Datta**, “UML Based Modeling for Systolic Array Processor” at the International Conference on Trends and Advances in Computation and Engineering (TRACE 2010) held on 25 – 26 February, 2010 at Barkatullah University, Bhopal, pp. 1465 – 1470, ISBN: 978 – 81 – 8387 – 398 – 7.

**33. Debabrata Datta**, Soumen Mukherjee, Anal Acharya, “Patenting Software: An Ethical Issue” at the International Conference on Business Ethics and Corporate Social Responsibilities (ICBECSR'09) held on 3 – 5 December, 2009 at KLMR, Belgaum, pp. 276 – 280, ISBN: 023 – 032 – 825 – 3.

**34.** Soumen Mukherjee, **Debabrata Datta**, Anal Acharya “Object Oriented Modeling of DCT: A Classic Signal Processing Architecture”, at the International Conference in Information Technology and Business Intelligence (ITBI 09) held on 6 – 8 November, 2009 at Institute of Management Technology, Nagpur.

**Seminar / Webinar / Workshop / Orientation Program / Refresher Course / Faculty Development Program attended:**

1. Faculty Development Program on The Nuances of Scientific Writing and Publishing jointly organized by All India Association for Christian Higher Education, New Delhi and Madras Christian College(Autonomous), Chennai from 11th July, 2022 to 19th July, 2022.
2. Faculty Development Program on Data Analytics for Business & Research organized by the Departments of Information Technology, Faculty of Commerce, St. Xavier’s College(Autonomous), Kolkata on 4th December, 2021.
3. Webinar on How to Live a Healthy Life amidst the Pandemic Crisis organized by the Internal Quality Assurance Cell, Maulana Azad College, Kolkata on 2nd September, 2020.
4. Webinar on Understanding Basics of Machine and Deep Learning organized by the Department of Information Technology, Meghnad Saha Institute of Technology, Kolkata on 31st August, 2020.
5. Webinar on Android Technology organized by the Department of Information Technology, Dr. M.G.R. Educational and Research Institute (Deemed to be University), Chennai on 23rd August, 2020.
6. Webinar on Emerging Growth of Virtual Reality and Augmented Reality organized by K.S.R.M. College of Engineering in association with Pantech Solutions on 14th August, 2020.

- 7.** Webinar on Understanding COVID-19 Progression with Data Science organized by the Department of Statistics, St. Xavier's College(Autonomous), Kolkata on 13th August, 2020.
- 8.** Webinar on SAP Basics organized by the Department of Information Technology, Dr. M.G.R. Educational and Research Institute (Deemed to be University), Chennai on 8th August, 2020.
- 9.** Webinar on Machine Learning Application using Python organized by KL Deemed to be University in association with Pantech Solutions on 4th August, 2020.
- 10.** Webinar on Autonomous Vehicle Technology organized by KL Deemed to be University in association with Pantech Solutions on 28th July, 2020.
- 11.** Faculty Development Program on Python for Data Science organized by the Departments of Information Technology and Computer Science and Engineering, Dr. M.G.R. Educational and Research Institute (Deemed to be University), Chennai from 23rd July, 2020 to 25th July, 2020.
- 12.** Webinar on Emerging Opportunities and Career Planning for Young Engineers in Post COVID Era organized by Liverpool Data Research Associates (LDRA) on 23rd July, 2020.
- 13.** Webinar on Python Programming organized by the Departments of Computer Science, Mathematics and Internal Quality Assurance Cell, Serampore Girls' College, Hooghly on 18th and 19th July, 2020.
- 14.** Webinar on Robotics Operating System organized by Adama Science & Technology University, Ethiopia, in association with Pantech Solutions on 17th July, 2020.
- 15.** Webinar on Internet of Things: Research Trends and User Authentication Issues organized by the Departments of Computer Science, Computer Application and Internal Quality Assurance Cell, Sarojini Naidu College for Women, Kolkata on 15th July, 2020.
- 16.** Webinar on Computer Vision Application Design organized by Atria Institute of Technology, Bengaluru in association with Pantech Solutions on 14th July, 2020.
- 17.** Webinar on Pandemic and Natural Disasters: Understanding and Coping organized by the Internal Quality Assurance Cell and the Academic



Council, St. Xavier's College(Autonomous), Kolkata on 11th and 12th July, 2020.

- 18.**Webinar on 5G and Beyond: how the world of telecommunication will look in next 5 years organized by the Department of Computer Science, T.H.K.Jain College, Kolkata on 11th July, 2020.
- 19.**Webinar on Neural Networks and a brief insight into Deep Learning organized by the Department of Computer Science, Scottish Church College, Kolkata on 10th July, 2020.
- 20.**Webinar on Object Recognition YOLO/MOBILE NET/CLOUD organized by Khalsa College for Women Sidhwan Khurd, Ludhiana in association with Pantech Solutions on 10th July, 2020.
- 21.**Webinar on Natural Language Processing organized by Siddhartha Institute of Technology & Sciences in association with Pantech Solutions on 7th July, 2020.
- 22.**Invited Web Talk on Data Migration – Heads and Tails organized by the Post Graduation Department of Computer Science, St. Xavier's College (Autonomous), Kolkata on 4th July, 2020.
- 23.**Workshop on Best Practices for Teaching Online organized by Surendranath College for Women in association with ABP Education on 4th July, 2020.
- 24.**Webinar on Remote Sensing: Latest Trends and Perspectives organized by Computer Society of India, Student Branch, Assam University, Silchar in association with the Department of Computer Science & Engineering, Assam University, Silchar on 4th July, 2020.
- 25.**Webinar on Covid 19 – The Current Scenario organized by the Department of Microbiology, St. Xavier's College(Autonomous), Kolkata on 2nd and 4th July, 2020.
- 26.**Webinar on Image Processing Applications organized by AIMIT St. Aloysius College(Autonomous), Mangalore in association with Pantech Solutions on 3rd July, 2020.
- 27.**Webinar on Face Recognition using Deep Learning organized by Balaji Institute of Technology & Science, Warangal in association with Pantech Solutions on 30th June, 2020.

- 28.** Faculty Development Program on LaTeX organized by the Department of Information Technology, Mizoram University in association with the Spoken Tutorial Project, IIT Bombay under PMMMNMTT, MHRD, Government of India from 29th June, 2020 to 3rd July, 2020.
- 29.** Webinar on Design of Brain Control Applications organized by Dr. B.R. Ambedkar National Institute of Technology, Jalandhar in association with Pantech Solutions on 26th June, 2020.
- 30.** Webinar on Internet of Things using NODEMCU organized by Shiv Kumar Singh Institute of Technology and Science in association with Pantech Solutions on 23rd June, 2020.
- 31.** Faculty Development Program on Robotics organized by the Department of Applied Electronics & Instrumentation Engineering & The Robotics Society, India, Student Chapter, RCC Institute of Information Technology, Kolkata India from 1st June, 2020 to 22nd June, 2020.
- 32.** Webinar on Yoga on Focus organized by Basirhat College NCC Unit (48/2 Bengal BN NCC) in collaboration with the Department of Physiology, Basirhat College, North 24 Parganas on 21st June, 2020.
- 33.** Webinar on IBM Security QRadar SIEM organized by Amstar Technologies on 19th June, 2020.
- 34.** Webinar on Internet of Things using Raspberry PI organized by Institute of Engineering and Technology in association with Pantech Solutions on 19th June, 2020.
- 35.** Webinar on Application Design of Brain Computer Interface organized by Adamas University in association with Pantech Solutions on 13th June, 2020.
- 36.** Seminar on Information Processing in the Paradigm of Computational Biology organized by Department of Computer Science and Electronics, Ramakrishna Mission Vidyamandira, Belur on 18<sup>th</sup> February, 2020.
- 37.** Technical Seminar on Your Journey Towards Safe & Secure Code organized by Liverpool Data Research Associates (LDRA) held at Novotel Hotel, Kolkata on 11<sup>th</sup> February, 2020.

- 38.**Seminar on Data Science - The Key to The Future organized jointly by the Departments of Computer Science and Statistics, St. Xavier's College (Autonomous), Kolkata in collaboration with Data Science Foundation on 22<sup>nd</sup> July, 2019.
- 39.**Short Term Training Program on IP Networking held at National Institute of Technical Teachers' Training and Research, Kolkata from 10<sup>th</sup> June, 2019 to 21<sup>st</sup> June, 2019.
- 40.**Seminar on Intellectual Property Law and Internet organized by the Computer Centre and Central Computing Facilities, St. Xavier's College (Autonomous), Kolkata on 10<sup>th</sup> October, 2018.
- 41.**Workshop on Big Data Analytics organized by the Department of Computer Science, Ramakrishna Mission Vivekananda Educational and Research Institute on 2<sup>nd</sup> June, 2018.
- 42.**International Seminar on Emerging Issues on the Interface of Science and Religion organized by the Goethals Indian Library & Research Society, Physics and EVS Departments, St. Xavier's College (Autonomous), Kolkata on 18<sup>th</sup> and 19<sup>th</sup> February, 2018.
- 43.**Seminar on Enterprise Digitization and Cyber Security organized by the Department of Computer Science, Department of Information Technology (Commerce) in association with Academic Council and Internal Quality Assessment Cell, St. Xavier's College (Autonomous), Kolkata on 21<sup>st</sup> December, 2017.
- 44.**Workshop on GST through Computerized Accounting organized by the Department of Information Technology (Commerce), St. Xavier's College (Autonomous), Kolkata in collaboration with Silicon Systems, Kolkata on 19<sup>th</sup> December, 2017.
- 45.**UGC sponsored Refresher Course on VLSI Design: Issues and Challenges organized by Human Resource Development Center, Jadavpur University from 28<sup>th</sup> November, 2016 to 17<sup>th</sup> December, 2016.
- 46.**Seminar on Cyber Law organized by the Department of Computer Science, St. Xavier's College (Autonomous), Kolkata on 21<sup>st</sup> December, 2016.

- 47.**Seminar on MATLAB & Simulink organized by the Department of Computer Science, St. Xavier's College (Autonomous), Kolkata in association with Elmax Projects and Services Private Limited on 18<sup>th</sup> December, 2015.
- 48.**Workshop on Human Values Development Program organized by All India Association for Christian Higher Education on 18<sup>th</sup> November, 2015.
- 49.**Workshop on Linux Administration & Virtualization organized by the Department of Computer Science, St. Xavier's College (Autonomous), Kolkata on 22<sup>nd</sup> December, 2014.
- 50.**UGC sponsored Orientation Program organized by Human Resource Development Center, Jadavpur University from 17<sup>th</sup> June, 2013 to 13<sup>th</sup> July, 2013.
- 51.**Workshop on Information Retrieval organized by the Department of Computer Science, St. Xavier's College (Autonomous), Kolkata in association with Information Retrieval Society of India on 27<sup>th</sup> March, 2011.
- 52.**UGC Sponsored National Seminar on Professionalism in Teacher Education organized by the Department of Education, St. Xavier's College (Autonomous), Kolkata on 21<sup>st</sup> and 22<sup>nd</sup> February, 2011.
- 53.**Workshop on MATLAB and Simulink Toolboxes organized by the Department of Computer Science, St. Xavier's College (Autonomous), Kolkata in association with Computer Society of India, Kolkata Chapter on 2<sup>nd</sup> October, 2010.
- 54.**Seminar on Modeling & Simulation Techniques for Computational Problems using MATLAB organized by the Department of Computer Science, St. Xavier's College (Autonomous), Kolkata in association with Computer Society of India, Kolkata Chapter on 1<sup>st</sup> October, 2010.

- 55.** Workshop on Innovative Teaching and Learning Method organized by B.P.Poddar Institute of Management and Technology in association with Wipro Ltd. from 12<sup>th</sup> April, 2010 to 17<sup>th</sup> April, 2010.
- 56.** Seminar on Introduction to Nanotechnology and Some Applications of Nanoparticles organized by the Department of Computer Application, RCC Institute of Information Technology, Kolkata on 5<sup>th</sup> January, 2009.
- 57.** Workshop on Preparing Leaders for Tomorrow's Leaders organized by Scottish Church College, Kolkata in association with United Board for Christian Higher Education in Asia from 8<sup>th</sup> October to 12<sup>th</sup> October, 2007.
- 58.** UGC Sponsored National Conference on Report of National Knowledge Commission and Higher Education in India organized by Scottish Church College, Kolkata on 24<sup>th</sup> and 25<sup>th</sup> March, 2007.
- 59.** Seminar on Mobile Computing and Network Security organized by the Department of Computer Application, RCC Institute of Information Technology, Kolkata on 9<sup>th</sup> March, 2007.
- 60.** Seminar on GIS, Remote Sensing & GPS organized by Computer Society of India, Kolkata Chapter on 3<sup>rd</sup> December, 2005.