

Prof. Siladitya Mukherjee



Department of Computer Science
St. Xavier's College (Autonomous), Kolkata
Email ID: siladitya.mukherjee@sxccal.edu
Designation: Assistant Professor
Qualification: M.C.A., M.Tech. (I.T.), M.B.A.

Profile: Siladitya Mukherjee is an Assistant Professor in the Department of Computer Science in St. Xavier's College, Kolkata. He joined the college as a **full time lecturer** in the **Department of Computer Science** from the **01.08.2007**. His **present research interests** are **Social Data Mining (SDM), Graphics Processing Unit (GPU) and Artificial Intelligence**. His area of teaching includes **Computer Fundamentals, Programming Languages as C, VB, C++, Java & Python, Distributed Operating Systems, Databases, Computer Graphics, Object Oriented Technologies & Web Technologies**.

He has above 20 years of experience in undergraduate and post graduate teaching & supervised several post graduate dissertations. He has some accepted papers in National and International Conferences and Journals. He has guided huge number of mini and major projects in his career. The details of his achievements are given below:

A. Book Chapters

| Serial | Chapter Details |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Contributor of Book Chapter – 'JDBC' (Chapter 18) in Programming with Java by E Balagurusami, 6 th Edition. |
| 2. | Contributor of Book Chapter – 'Java Servlets and Java Server Pages (JSP)' (Chapter 19) in Programming with Java by E Balagurusami, 6 th Edition. |
| 3. | Official PPT presentation of Book Chapters 18 and Chapter 19. |
| 4. | Reviewer of the book 'Programming in ANSI C' – by 'E. Balagurusamy' with respect to 'Introduction to C Programming' by 'Reema Thareja' and 'Let Us C' by 'Y. Kanetkar'. |

B. Papers in International Journals

| Serial | Paper Details |
|--------|------------------------------------------------------------|
| 1. | Data Encryption In Cloud Storage, IJST, 2014, First Author |
| 2. | Duplicate File Analyzer using N-Layer Hash and Hash Table |
| 3. | Automated Control System based on GSM Mobile Network |

C. Dissertations supervised

| Serial | Project Details |
|--------|-----------------------------------------------------------------------------------------|
| 1. | Character Identification using OCR |
| 2. | GPRS based Bus Ticket Reservation System |
| 3. | The Permutable Flowshop Scheduling Problem (PFSSP) |
| 4. | Steganography |
| 5. | Stock Price Prediction based on Historical Stock Prices using Bidirectional LSTM |
| 6. | GSM Based Automation and Monitoring System |
| 7. | Data Encryption In Cloud Storage |
| 8. | Duplicate File Analyzer using N-Layer Hash and Hash Table |
| 9. | Feature based Face Recognition |
| 10. | Grading Write-Ups using Deep Learning |

D. Papers in Aviskar: A Xaverian Journal of Research

| Serial | Paper Details |
|--------|---------------------------------------------------|
| 1. | GSM Based Automation and Monitoring System |

E. Seminars/Workshops attended

| Serial | Seminars/Workshop Details |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Two day Workshop on “Mobile Systems” organized by <i>West Bengal University of Technology in association with IEEE Calcutta Chapter</i> , held at WBUT, Slat Lake City on 11 th and 12 th of July, 2008. |
| 2. | Two day Seminar on “Engineering Application of Computational Intelligence” organized by <i>St. Thomas’ College of Engineering and Technology</i> , held on 3 rd and 4 th of April, 2009. |
| 3. | One day Seminar on “Data Mining and Data Warehousing” organized by <i>Department of Computer Science</i> held in <i>St. Xavier’s College, Kolkata</i> on 31 st October, 2009. |
| 4. | One day Seminar on “Modeling and Simulation Techniques for Computational Problems using MATLAB” organized by <i>Department of Computer Science</i> in association with <i>Computer Society of India Kolkata Chapter</i> , held in <i>St. Xavier’s College, Kolkata</i> on 1 st October, 2010. |
| 5. | One day Workshop on “MATLAB and Simulink Toolboxes” organized by <i>Department of Computer Science</i> in association with <i>Computer Society of India Kolkata Chapter</i> , held in <i>St. Xavier’s College, Kolkata</i> on 2 nd October, 2010. |
| 6. | Two Day UGC Sponsored National Seminar on “Professionalism In Teacher Education” organized by <i>Department of Education of St. Xavier’s College(Autonomous),Kolkata</i> , held in <i>St. Xavier’s College (Autonomous), Kolkata</i> on 21 st and 22 nd of February, 2011. |
| 7. | One day Workshop on “Information Retrieval” organized by <i>Department of Computer Science</i> in association with <i>Information Retrieval Society of India</i> , held in <i>St. Xavier’s College, Kolkata</i> on 27 th March, 2011. |
| 8. | One day Basic Training Programme on “Human Rights” – “An Empowering Exploration of Issues Facing Human Beings around the Globe Today” organized by <i>St. Xavier’s College, Kolkata</i> in collaboration with <i>National Human Rights Commission, New Delhi</i> held at <i>St. Xavier’s College, Kolkata</i> on 1 st November, 2014. |
| 9. | One day Workshop on “Linux Administration and Virtualization” organized by <i>Department of Computer Science</i> , held in <i>St. Xavier’s College (Autonomous), Kolkata</i> on 22 nd December, 2014. |
| 10. | One day Skill Development Programme Workshop on GST through Computerised Accounting organized by <i>Department of Information Technology (Commerce), St. Xavier’s College (Autonomous), Kolkata</i> in collaboration with <i>Silicon Systems Kolkata</i> held on 19 th December, 2017. |
| 11. | One day Faculty Improvement Programme Seminar on Enterprise Digitization And |

| | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Cyber Security organized by <i>Department of Computer Science and Department of Information Technology</i> in association with Academic Council and Internal Quality Assessment Cell of the college held in St. Xavier's College (Autonomous), Kolkata on 21 st December, 2017. |
| 12. | One day Pre-Convention Tutorial organized by 52 nd Annual Convention Computer Society of India (CSI 2017) In conjunction with National IT Congress in collaboration with Professor A. K. Choudhury School of Information Technology & <i>the Department of Computer Science and Engineering, University of Calcutta</i> held at the Technology Campus, University of Calcutta, Slat Lake City on 18 th January, 2018. |
| 13. | One day International Seminar on Frontiers in Biological Science (FIBS) organised by <i>Department of Microbiology, St. Xavier's College, Kolkata</i> held on 30 th January, 2018. |
| 14. | One day Seminar on "Intellectual Property Law and Internet" held at St. Xavier's College on 10 th October, 2018. |
| 15. | One day National Seminar on "Data Science – The Key to the Future" organized by <i>Department of Computer Science and Statistics, St. Xavier's College, Kolkata</i> in collaboration with <i>Data Science Foundation</i> held at St. Xavier's College (Autonomous), Kolkata on 22 nd July, 2019. |
| 16. | Two day National Seminar on "Application of Statistics in Natural Sciences" organized by <i>Departments of Statistics and Physics</i> in collaboration with <i>IUCAA Centre for Astronomy Research and Development (ICARD), Kolkata</i> held at St. Xavier's College (Autonomous), Kolkata on 16 th -17 th December, 2019. |

F. Job Profile

| Serial | Details |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Assistant Professor in Computer Science Dept. at St. Xavier's College (Autonomous), Kolkata since August, 2007. |
| 2. | Lecturer at St. Thomas' College of Engineering & Technology (January 2006 – July 2007). |
| 3. | Examiner of Information Technology paper in Calcutta University & Visvabharati University and Moderator in Visvabharati University (August 2004 – December 2005). |
| 4. | Visiting Lecturer of B.Com. I.T. at St. Xavier's College (Autonomous), Kolkata (July 2005 – December 2005). |
| 5. | Honorary Lecturer of Artificial Intelligence at St. Thomas' College of Engineering & Technology. (September 2004 – December 2005). |
| 6. | Guest Lecturer in DBMS, Software Engineering and E-Commerce at IIAS – IU (Indian Institute of Advanced Studies – International University) (August 2004 – December 2005). |
| 7. | Guest Lecturer in IT at Vidyanagar College (August 2004 – December 2005). |
| 8. | Instructor at St. Xavier's Computer Centre for 5 years (January 2000 – April 2005). |

G. Academic and Extra Curricular Achievements:

| Serial | Achievements |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Stood third in M.Tech. I.T. (Courseware Engg.) from Jadavpur University |
| 2. | Stood first in DOEACC A-Level conducted by St. Xavier's Computer Centre |
| 3. | Achieved the certificate of "Sangeet Visharad" equivalent to "Sangeet Pravakar" in Hawaiian Guitar in "Rabindra Sangeet and Classical Music" with distinction from Chandigarh University |
| 4. | Classical Guitar Recital in Young Talents' Conference conducted by "Subhas Sanskriti Sangeet Parishad" |
| 5. | Men's Doubles Table Tennis Champion in college in the year 1997 along with my twin brother, Mr. Arunaditya Mukherjee |