

# CURRICULUM VITAE

**Mausumi Das Nath**



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## **SCHOLARSHIP**

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Received scholarship from TEQIP Phase II during September 2013-June 2015 for pursuing M.Tech (Information Technology) at RCCIIT, Kolkata.

## **PROFESSIONAL QUALIFICATION**

- Pursuing Research work.
- M.Tech in Information Technology from RCCIIT under MAKAUT in 2015 (DGPA-8.67; YGPA-9.17).
- PGDIT(Post Graduate Diploma In Information Technology) from Symbiosis, Pune'2010.
- MCA(Master in Computer Application) from IGNOU, June' 2003.
- 'O' Level conducted by DOE(Govt. of India) in 1998.
- Post Graduate Diploma in Computer Science (2 years) from Lakhotia Computer Centre in 1997.
- Qualified Structured Systems Analysis & Design examination conducted by COMPUTER SOCIETY OF INDIA in September 1997.

## **TEACHING EXPERIENCES**

- Faculty at St. Xavier's College(Autonomous), Kolkata for B.Com(Morn & Eve).
- Counsellor at Regional Centre(IGNOU),Kolkata and St. Xavier's College (Autonomous), for IGNOU (MBA & MCA papers).
- Served as a Guest lecturer at Jogomaya Devi College, Kolkata from Aug'2017 till Dec'2019.
- Served as a guest faculty at St. Xavier's College (Autonomous), Kolkata from Jan'2011 till Jun'2017 for B.Com and BBA and also, taught at St. Lawrence Campus .
- Served as a Teaching Assistant in the Department of Information Technology, RCCIIT, Kolkata from the period, September 2013-June 2015.
- Served as an Assistant Professor at ABSS Institute of Higher Education for BCA, BBA

department from Sept'2001 to July'2013.

During the above tenure, carried out several academic-cum-administrative jobs like guiding several projects, subject allocation, class scheduling, conducting internal exams, attendance monitoring, etc.

- Served as a guest faculty at GLF School of Management (affiliated to Vidyasagar University) for MBA (Computer Application).
- Served as a guest faculty at Srimati Techno Institution (affiliated to Punjab Technical University) for BCA and MCA.
- Served as a Part Timer at Industrial Training Institute(General & Women) for teaching Computer Studies.
- Served as a Counsellor at Dinabndhu Andrews College for CIC, BCA & MCA programmes of IGNOU.

### **PROFESSIONAL ACTIVITIES**

- Academic Counsellor for IGNOU Regional Centre & Study centre (2802) for MCA and MBA courses.
- Active technical committee member for several webinars and conferences.
- Project supervisor for BCA & MCA.
- Invited as an external examiner for colleges affiliated to Calcutta University.
- Invited as Reviewer of Elsevier and other international journals.
- Invited as Resource Person for IGNOU-B.Ed Workshop II.
- Listed as an empanelment expert of O' level of NIELIT (formerly DOE).
- Assisted in writing a book chapter on Content based Video Retrieval.
- Examiner of BCA, MCA,MBA conducted by IGNOU.
- Ex-examiner and paper setter of WBUT (BCA).

### **PUBLICATIONS**

- Nath, M. Das, “**The Revolutionary Role Of Artificial Intelligence in Banking Sector-A Brief Review**”, AVISKAAR, Vol 17, pp.57-65, Jan-2025,ISSN(Print):2277-8411,ISSN(Online):2278-1048.
- Basu, M, and Nath, M. Das, “**A Study of the Role of Artificial Intelligence in Monitoring Environmental and Health Issues in the Post-COVID-19 Pandemic Era for Sustainable Living**”,“Artificial Intlelligence for Multimedia Information Processing-Tools and Applications”, Routledge-Taylor and Francis Group, CRC Press, Edition:1<sup>st</sup>, 14<sup>th</sup> June,2024, ISBN:9781032521473,DOI:10.1201/9781003405436-11
- Nath, M. Das, and Jain, M.Kr.. “**How Financial Technology(Fintech) Helped Mitigate the Impact of COVID-19 in the Indian Banking Sector**, YOUTHINK, Vol XVIII, pp.333-349, Feb-2024,ISSN:2347-6222.
- Nath, M. Das, and D.Dey, “**An Overview Of The Challenges In Paradigm Shift During Covid And Post-Covid Period In The Perspective Of Indian Education Sector**”, Emerging Issues In Commerce, Environment ,Economics & Management, Vol.01, pp(85-95),ISBN:978-1-68576-269-8
- Nath, M. Das, and T. Bhattachali, “**Anomaly Detection using Machine Learning Approaches**”, Azerbaijan Journal of High Performance Computing, Vol.03(2) , pp.196-206,Dec 2020,Print ISSN: 2616-6127,Online ISSN:2617-4383, DOI: <https://doi.org/10.32010/26166127/2020.3.2.196.206.pdf>

- **Nath, M. Das,** and Agnihotri, M.A. “**A Review of the Revolutionizing Role of Big Data In Retail Industry**”, accepted on 20<sup>th</sup> June’2020 for publication in Apple Academic Press (a unit of CRC Press, Taylor & Francis Group, USA) as Conference Proceedings, published in Feb,2022,Hard ISBN:9781774639979.
- Bhartia, D, and **Nath, M. Das,** “**Impact of Big Data on E-Commerce Websites**”, accepted on 8<sup>th</sup> June’2020 for publication in Apple Academic Press (a unit of CRC Press, Taylor & Francis Group, USA) as Conference Proceedings, published in Feb,2022,Hard ISBN:9781774639979.
- Nandan, Swaraj Kumar, and **Mausumi Das Nath.** "Impact Of Artificial Intelligence In Making Better Marketing Decisions In Healthcare Industries." *Our Heritage* 68, no. 8 (Jan-2020): 53-59. ISSN:0474-9030.
- **Nath, M. Das,** and T. Bhattasali “**SCMCI: Secured Click and Mortar Commercial Interaction**”,53<sup>rd</sup> Annual Convention 2020, International Conference on “Digital Democracy-IT for Change”, Jan’2020,Springer(**Accepted and Communicated**).
- **Nath, M. Das,** and Agnihotri, M.A. “Impact of M-Governance Amongst Citizens”, YOUTHINK, Vol XIV, pp.264-269, Sept-2019,ISSN:2347-6222.
- **Nath, M. Das,** and T. Bhattasali, “Impact of Blockchain to Secure E-Banking Transaction”, International Journal of Computer Sciences and Engineering, Vol.07 , Special Issue.18 , pp.1-6, May-2019, E-ISSN: 2347-2693.
- **Nath, M. Das,** and S. Karforma. "Object-Oriented Modelling Of Kerberos Based Authentication Process In E-Banking Transaction." , International Journal of Computer Sciences and Engineering, Vol.-6, Issue-9, Sep 2018, E-ISSN: 2347-2693.
- Bhaumik, H., Bhattacharyya, S., **Mausumi Das Nath** & Chakraborty, S. (2016). Hybrid soft computing approaches to content based video retrieval: A brief review. *Applied Soft Computing*.
- Bhaumik, H., Bhattacharyya, S., **Mausumi Das Nath**, Chakraborty, S. (2015, April). Real-Time Storyboard Generation in Videos Using a Probability Distribution based Threshold. In *Communication Systems and Network Technologies (CSNT), 2015 Fifth International Conference on* (pp. 425-431). IEEE.
- Published an article on Video Summarization in RCCIIT magazine “Iterate”.

### **PARTICIPATION IN CONFERENCES/SEMINARS/WORKSHOPS**

- Moderated IT Seminar titled “Key Tenets Of Industry 4.0 in the Realm Of E-Commerce” dated 8th February, 2025.
- Participated in an International Conference ICCEEM 2025 and also have been an active technical committee member on 6th & 7th February,2025, organized by Post Graduate and Research Department of Commerce and Department Of Management Studies, St. Xavier’s College(Autonomous),Kolkata in collaboration Of IQAC.
- Participated in Faculty Development Programme on “Embracing AI In Education: Empowering Teachers For The Future” on 21<sup>st</sup> January,2025.
- Participated in an International Conference ICCEEM2023-24 and also have been an active technical committee member on 9th & 10th February,2024, organized by Post Graduate and Research Department of Commerce, St. Xavier’s College(Autonomous), Kolkata in Collaboration with St. Xavier’s University,Kolkata.
- Participated in the Faculty Orientation Programme titled “Integrating AI in Higher Education” organized by St. Xavier’s College (Autonomous), Kolkata on 3<sup>rd</sup>

October,2023.

- Participated in an International Conference ICCEEM2022-23 and also have been an active technical committee member on 10<sup>th</sup> & 11<sup>th</sup> February,2023, organized by Post Graduate and Research Department of Commerce and The Internal Quality Assurance Cell (IQAC) of St. Xavier's College(Autonomous),Kolkata in association with Fordham University, New York, USA.
- Been a resource person for sharing knowledge on SQL for the Information Technology Department of St. Xavier's College (Autonomous), Kolkata on 10<sup>th</sup> February,2023.
- Participated in the FDP programme titled "The Revised Accreditation Framework on NAAC" organized by St. Xavier's College (Autonomous), Kolkata on 8<sup>th</sup> July,2022.
- Participated in An Online Faculty Development Programme on "Data Analysis Using Python" organized by Department of Information Technology (Commerce) and Internal Quality Assurance Cell (IQAC) of St. Xavier's College (Autonomous), Kolkata from 27.06.2022 (Monday) to 02.07.2022 (Friday) from 3:30 PM to 5:30 PM in collaboration with E& ICT Academy of IIT Kanpur at Zoom Platform.
- Participated in IP Awareness/Training program under **National Intellectual Property Awareness Mission**, organized by Intellectual Property Office, India on 5<sup>th</sup> March, 2022.
- Participated in a Webinar on "**First Training Program on Fundamentals of Python Language**" organized by West Bengal State Council of Higher Education in collaboration with MAKAUT, West Bengal from 16<sup>th</sup> February to 3<sup>rd</sup> March,2022.
- Presented a paper titled "**An Overview Of The Challenges In Paradigm Shift During Covid And Post-Covid Period In The Perspective Of Indian Education Sector**" in a Virtual International Conference On Emerging Perspectives In Commerce, Environment and Management-Road Towards Sustainable Economy organized by St. Xavier's College(Autonomous),Kolkata in collaboration with The Institute Of Cost Accountants Of India on 27<sup>th</sup> & 28<sup>th</sup> January,2022.
- Completed successfully Inter-disciplinary online **Two Week Refresher Course** on "**Managing Online Classes & Co-creating MOOCS 10.0**", organized by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with Sree Narayana Guru College of Commerce, Mumbai under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching from 13-27 December,2021.
- Participated in a Web Talk on "**Analytics: What, How and Why...?**" organized by Post Graduate Dept. of Computer Science, St. Xavier's College(Autonomous),Kolkata on 8<sup>th</sup> October,2021.
- Participated in a Faculty Orientation Programme on "**Ignation Pedagogy and Jesuit Charism**" organized by St. Xavier's College(Autonomous),Kolkata on 19<sup>th</sup> September, 2021.
- Moderated E-Commerce webinar titled "**Digital Marketing 2021**" and "**Financial Fraud in Cyber Space and its Prevention**" dated 28<sup>th</sup> August and 25<sup>th</sup> September, 2021 respectively.
- Participated in an Online Faculty Development Programme on "**Data Analytics for Business & Research**" organized by Department of Information Technology, Faculty of Commerce, St. Xavier's College(Autonomous),Kolkata, on 4<sup>th</sup> December,2021.
- Participated in an International Webinar on "**Artificial Intelligence & Data Science**" organized by Dept. of Software Development, B.Voc Studies & IQAC,Asutosh College, Kolkata on 11<sup>th</sup> & 12<sup>th</sup> June,2021.
- Participated in a 3-Day Webinar titled "**Security Awareness in Digital Tomorrow**" organized by CS-COE, Govt.of WB from 7<sup>th</sup> -9<sup>th</sup> June,2021.

- Participated and been a technical member in the Web Talk on “**Cyber Crime And The Law**”, organized jointly by Department of Commerce(Information Technology and Law),in association with Department of Computer Science, St. Xavier’s College(Autonomous),Kolkata, on 17<sup>th</sup> April,2021.
- Presented a proposed work titled “**Anomaly Detection using Machine Learning Approaches**” in an International Workshop organized jointly by Azerbaijan State Oil and Industry University, Baku and St. Xavier’s College(Autonomous),Kolkata on 17<sup>th</sup> & 18<sup>th</sup> Nov,2020.
- Participated in the Webinar on “**Natural Language Processing**”, organized jointly by

St. Xavier’s College(Autonomous),Kolkata ,Department of Computer Science and Engineering, Meghnad Saha Institute of Technology in association with IEEE Computational Intelligence Society, Kolkata Chapter, IEEE Computer Society Student Branch Chapter, MSIT and ACM Student Chapter, MSIT on 3<sup>rd</sup> Oct,2020.

- Participated in the One day Live Webinar on “**Knowledge Engineering In Artificial Intelligence**”, organized by the Department of Computer Science, St. Antony’s College of Arts and Sciences for Women,Thamaraipadi, Dindigul, TamilNadu on 07.09.2020.
- Participated in the National Level Webinar on “**NEP-2020 A paradigm shift in Education**”, organized by the internal Quality Assurance Cell of Dr. M.G.R. Educational And Research Institute, Chennai held on 02.09.2020.
- Participated in the webinar on “**Blockchain Technology**”, organized by the Department of Information Technology, Dr. M.G.R. Educational And Research Institute, Chennai in association with Industry Institute Planning Cell on 29.8.2020.
- Presented paper titled “**Impact of Big Data On E-Commerce Websites**”, in an International Conference On Emerging Trends In Science & Technology(ICETST-TECHMEET 2020) organized by PCMT,Kolkata on 21<sup>st</sup> & 22<sup>nd</sup> Aug,2020.
- Presented paper titled “**A Review of the Revolutionizing Role of Big Data In Retail Industry**”, in an International Conference On Emerging Trends In Science & Technology(ICETST-TECHMEET 2020) organized by PCMT, Kolkata on 21<sup>st</sup> & 22<sup>nd</sup> Aug,2020.
- Participated in the Two-day Webinar on “**NAAC Assessment and Accreditation Process**”, organized by Internal Quality Assurance Cell(IQAC) And Academic Council, St. Xavier’s College(Autonomous),Kolkata on 30<sup>th</sup> and 31<sup>st</sup> July,2020 at 2.30PM.
- Completed successfully **Faculty Development Program** on “**Python for Data Science**”, organized by the Department of Information Technology and Department of Computer Science & Engineering, Dr. M.G.R. Educational And Research Institute, in association with Imarticus Learning,Chennai held from 23.07.2020 to 25.07.2020 .
- Completed successfully **One Week Faculty Development Program** on “**Essentials for Blended Learning**”, organized by the Department of Information Technology, Dr. M.G.R. Educational And Research Institute, Chennai held from 13.07.2020 to 20.07.2020 .
- Participated in the Two-day International Webinar on “**Managing Business in a Post COVID-19 World: Changes,Challenges and Strategies**”, organized by Post Graduate and Research Department Of Commerce, St.Xavier’s College(Autonomous), Kolkata in collaboration with IQAC Cell ,on 18<sup>th</sup> & 19<sup>th</sup> July,2020.
- Participated in the National Webinar “**Pandemic And Natural Disasters: Understanding And Coping**”, organized by Internal Quality Assurance Cell(IQAC) And Academic Council, St. Xavier’s College(Autonomous),Kolkata on 11<sup>th</sup> and 12<sup>th</sup>

July,2020.



- Participated in the Webinar on **“How to build a career in the IT industry after graduation days in this changed pandemic scenario with new ways of working”**, jointly organized by the Department of Computer Science and the IQAC, Narasinha Dutt College, on 4<sup>th</sup> July, 2020.
- Participated in the invited Web Talk on **Data Migration-Heads and Tails**, organized by Post Graduate Department of Computer Science, St. Xavier’s College (Autonomous), Kolkata on 4<sup>th</sup> July, 2020 at 11AM.
- Completed successfully **One Week Faculty Development Programme** on **“Open Source Tools for Research”**, organized by Teaching Learning Centre, Ramanujan College, University of Delhi and sponsored by MHRD, Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching from June 08-June 14, 2020.
- Completed successfully 10 hours online workshop on **Machine Learning**, organized by Nexgentics IT Services Pvt Ltd on 27<sup>th</sup> June’2020.
- Attended Faculty Development on **“Mindful Leadership:Invincible Wisdom in the Age of Artificial Intelligence”**, organized by St. Xavier’s College (Autonomous), Kolkata in association with IIM Kozhikode, 20<sup>th</sup> Feb’2020.
- Presented a research paper titled **“SCMCI: Secured Click and Mortar Commercial Interaction”** in the International Conference on **“Digital Democracy-IT for Change”**, held during 16<sup>th</sup>-18<sup>th</sup> January, 2020 at KIIT, Bhubaneswar, organized by Computer Society of India.
- Been a technical member of 2<sup>ND</sup> International Conference On Innovative Business Practices In A VUCA WORLD , organized by Departments of Commerce & Management Studies, St. Xavier’s College (Autonomous), Kolkata in collaboration with Department Of Commerce, University of Calcutta & Lincoln University College, Malaysia, 3<sup>rd</sup>-4<sup>th</sup> Jan, 2020.
- Presented paper titled **“Impact of Artificial Intelligence in Making Better Marketing Decisions in Healthcare Industries”**, at Two Day International Conference on Emerging Perspectives in Commerce, Economics, Environment and Management-Transformation of the Global Economy(ICCEM 2019) on 13<sup>th</sup>-14<sup>th</sup> September’2019, Departments of Commerce and Management Studies of St. Xavier’s College (Autonomous), Kolkata in collaboration with Bengal Chamber of Commerce & Industry.
- **Two Day International Conference on Emerging Perspectives in Commerce, Economics, Environment and Management-Transformation of the Global Economy**, organized by Departments of Commerce and Management Studies of St. Xavier’s College (Autonomous), Kolkata in collaboration with Bengal Chamber of Commerce & Industry, 13<sup>th</sup>-14<sup>th</sup> September’2019.
- **One Day National Workshop On Plagiarism And Academic Integrity**, organized by Department of Information Technology and Fr. Verstraeten Library of St. Xavier’s College (Autonomous), Kolkata on 31<sup>st</sup> August’2019.
- **7-Day UGC Approved National Workshop on Quantitative Research Methodology(using SPSS-AMOS-iThenticate)**, organized by Departments of Commerce and Management Studies of St. Xavier’s College (Autonomous), Kolkata from 8<sup>th</sup> August to 17<sup>th</sup> August, 2019.
- **One Day National Seminar On “Data Science-The Key To The Future”**, organized by Departments of Computer Science and Statistics on 22<sup>nd</sup> July’2019.
- **Participated in Music Therapy Lessons For Stress Relief**, organized by the Psychological Counselling Cell, IQAC, New Alipore College, on 14<sup>th</sup> May’2019.

- **Knowledge Workshop On Mobile Governance and Mobile Manufacturing**, organized by Department of Information Technology & Electronics, Government Of West Bengal on 18<sup>th</sup> April'2019.
- Presented paper titled “**Impact of Blockchain to Secure E-Banking Transaction**” at the International Conference on " Electrical, Electronics, Computer Science & Civil Engineering TECH-MEET 2019,organized by Pailan College of Management & Technology, Joka, Kolkata held on 26th & 27th April, 2019 at Pailan, Kolkata.
- Presented paper titled “**Object-oriented Modelling of Kerberos Based Authentication Process In E-Banking Transaction**”, at the First International Conference on Innovations in Computer Science(ICICS-2018) on 22<sup>nd</sup> December'2018,Department of Computer Science, University of Burdwan.
- Been an organizing team member in a One Day Skill Development Programme on **Advanced Excel-A Professional Approach**, organized by Department of Information Technology(Commerce) of St. Xavier's College (Autonomous), Kolkata.
- Participated in the seminar on **Intellectual Property Law and Internet** held at St. Xavier's College(Autonomous),Kolkata, organized by the Department of Computer Centre and Central Computing Facilities.
- One Day Skill Development Programme, Workshop On GST Through Computerized Accounting, organized by Department of Information Technology(Commerce), of St. Xavier's College (Autonomous), Kolkata and Silicon Systems Kolkata.
- Prospects of NAAC Accreditation and Impacts of GST On Higher Education, organized jointly by IQAC, Harimohan Ghose College & The Institute of Cost Accountants of India.
- National Conference On Computing, Electronics & Electrical Engineering (NCCEEE), organized by Pailan College of Management & Technology.
- Seminar on MATLAB & Simulink, organized by the Department of Computer Science of St. Xavier's College(Autonomous), Kolkata with Elmax projects & Services Pvt. Ltd.
- TEQIP Phase II sponsored One week Staff Development Program on “MATLAB: Applications In Engineering”, organized by the Department of Information Technology Of RCC Institute of Information Technology.
- Third International Conference on Emerging Applications of Information Technology ( EAIT 2012),Organized by Computer Society of India Kolkata Chapter.

### **PERSONAL PROFILE**

- **Languages Known:** Bengali, English & Hindi
- **Interest:** Music