Name	Ms. REEK ROY
Designation	Assistant Professor & Head of the Department
Name of the Department	Computer Science
Email ID	reekroy@beldacollege.ac.in reek.beldacollege@gmail.com
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Educational Qualification:

Degree Name	Institute	Year of passing/awarded
B.Sc. (HONS.) in Computer Science	St. Xavier's College (University of Calcutta)	2015
M.Sc. in Computer Science	St. Xavier's College (University of Calcutta)	2017
M.Tech. in CSE	RCC Institute of Technology (MAKAUT)	2019

Career Profile/Teaching Experience

Assistant Professor in Belda College since 2019 till date

Specialization/Research Area

Internet of Things (IoT), Optimization

Course/ Subject Taught

Operating System, MATLab, Computer Architecture, Automata, Compiler, Computer Fundamentals

Publications in Journal / Book / Book Chapter

Papers

Title of the Paper	Journal Name with ISSN, Vol. etc.	Year of Publication
A Comprehensive Study on Security issues in Android Mobile Phone – Scope and Challenges	International Journal of Innovative Research in Advanced Engineering (IJIRAE) ISSN : 2349-2763	2016
A Pilot Study on Natural Language Processing – Applications of Finite State Automation	Current Trends in Technology and Science (Volume: 04. Issue: 06) (Oct-Nov 2015) ISSN: 2279-0535 **Peer Reviewed**	2015

Conference

Title of the Paper	Conference Name with Details	Year of Publication
The AgriTech Revolution: Linking Industry 4.0 with IoT, Big Data, AR, VR, and Blockchain in Agriculture	**Proceeding Partner:** Springer **Conference Proceedings:** International Conference on Systems and Technology for Smart Agriculture (December 19-20,2023) organized by Centre for Development of Advanced Computing (C-DAC) Kolkata, in association with the University of Calcutta	**2023**

Book/Book Chapter

Title of the Book	Publication Name with ISSN , Vol etc.	Year of Publication
Book Details: Smart Agriculture Automation Using Advanced Technologies - Data Analytics and Machine Learning, Cloud Architecture, Automation and IoT (pp 89-111) **Series -** Transactions on Computer Systems and Networks	**Title: ML-Based Smart Farming Using LSTM** **First published:**1 January 2022 Springer, Singapore Hardcover ISBN: 978-981-16-6123-5 Softcover ISBN: 978-981-16-6126-6 eBook ISBN: 978-981-16-6124-2 Series ISSN: 2730-7484 Series E-ISSN: 2730-7492 https://doi.org/10.1007/978-981-16-6124-2_5	**2022**
Book Details: AI, Edge and IoT-based Smart Agriculture	**Title: A Crop-Monitoring System Using Wireless Sensor Networking** **First published:** 10 November 2021, Elsevier Paperback ISBN: 978-0-12-823694-9 eBook ISBN: 9780128236956 https://doi.org/10.1016/B978-0-12-823694-9.00003-7	**2021**
Book Details: AI, Edge and IoT-based Smart Agriculture	**Title: Integration of RFID And Sensors In Agriculture Using IOT** **First published:** 10 November 2021, Elsevier Paperback ISBN: 978-0-12-823694-9 eBook ISBN: 9780128236956 https://doi.org/10.1016/B978-0-12-823694-9.00003-7	**2021**
Book Details: AI, Edge and IoT-based Smart Agriculture	**Title: Crop Management System Using IoT** **First published:** 10 November 2021, Elsevier Paperback ISBN: 978-0-12-823694-9 eBook ISBN: 9780128236956 https://doi.org/10.1016/B978-0-12-823694-9.00003-7	**2021**
Book Details: Smart Healthcare System Design: Security and	**Title: Cloud-Assisted IoT System for Epidemic Disease Detection and Spread	**2021**

Privacy Aspects	**Monitoring** **First published:**17 June 2021 2021 Scrivener Publishing LLC(Wiley) Print ISBN: 9781119791683 Online ISBN: 9781119792253 DOI:10.1002/9781119792253 https://doi.org/10.1002/9781119792253.ch5	
Book Details: Agricultural Informatics: Automation Using the IoT and Machine Learning	**Title: Development of IoT-Based Smart Security and Monitoring Devices for Agriculture** **First published:** 8 March 2021 2021 Scrivener Publishing LLC (Wiley) Print ISBN: 9781119768845 Online ISBN: 9781119769231 DOI:10.1002/9781119769231 https://doi.org/10.1002/9781119769231.ch8	**2021**
Book Details: Agricultural Informatics: Automation Using the IoT and Machine Learning	**Title: IoT-Enabled Agricultural System Application, Challenges and Security Issues** **First published:** 8 March 2021 2021 Scrivener Publishing LLC (Wiley) Print ISBN: 9781119768845 Online ISBN: 9781119769231 DOI:10.1002/9781119769231 https://doi.org/10.1002/9781119769231.ch11	**2021**

Conference /Seminar/Workshop Attended/Organised:

ORGANIZED:

1. **Convener** of **1st ETCSA 2020 National Webinar** on "Applications of AI & Machine Learning: The Opportunities and Challenges", organized by Dept. of Computer Science & BCA in Technical Collaboration with IEEE Computational Intelligence Society, Kolkata Chapter, WB.
2. Member of Organizing Committee of **Two-Day International Conference On Coping With Covid-19: Sustainable Living in the Era of Pandemic (E-Coexist 2020)**, organized by IQAC, Belda College in Collaboration with Bangladesh Open University.
3. Member of Organizing Committee of **One Day Special Lecture on "Python Programming: An Overview"** in 2023, organized by Dept. of Computer Science & BCA.
3. Coordinator of Add-on Courses: Fundamentals of Computers and Web Designing, Cyber Crime and Security, Fundamental of Google Workspace for Educational Transformation.

ATTENDED / PRESENTED PAPER / POSTER:

1. Presented Paper **The AgriTech Revolution: Linking Industry 4.0 with IoT, Big Data, AR, VR, and Blockchain in Agriculture** in International Conference on Systems and Technology for Smart Agriculture (December 19-20,2023) organized by Centre for Development of Advanced Computing (C-DAC) Kolkata, in association with the University of Calcutta, Proceeding Partner: Springer

Invited Lectures :

Member of Committee:

1. Member of **IQAC**, Belda College
2. **Convener** of Cultural Sub-Committee of Belda College
3. Honourable **Member** of the **Syllabus Draft Committee of Archery** for B.A. General Course of Raja Narendra Lal Khan Women's College (Autonomous), Vidyasagar University

Extra Curricular Activities:

ARCHERY:

- Participated in the 2018 **WAA's (World Archery Asia) International Joint Training Program** held in **Dhaka, Bangladesh** from 04th – 10th November, 2018. Won **2 Gold medals** in the Individual and Team events respectively in the competition.
- **10 times State Champion** in Archery.
- **10 times National participation** and **2 times National Games** (2011 and 2015) participation in Archery.

- Awarded The TTEF Award for the **Best Sportsperson** by **The Telegraph** in 2009.
- Awarded The Ardhek Aakash Award from The Kaler Khobor Patrika by the All India Editors & Journalists Guild and Indian Poets, Editors, Writer & Journalists Forum in 2015 for Archery.
- Qualified as the **National Judge** in Archery game in 2021.
- Qualified as the **Archery Coach Level 1 & Level 2** in Archery game in 2022 and 2023 respectively from Archery Association of India (AAI)
- Qualified as the **World Archery Coach Level 1** in Archery game in 2024 from World Archery Excellence Centre, Lausanne Switzerland.

MUSIC:
- Learning **classical music, folk, devotional songs** since last 10 years. Taken classes in **ITC SRA (Sangeet Research Academy) Kolkata**.
- Participation in various music functions organized by **West Bengal Govt.** (Bangla Sangeet Mela), Bidhannagar Municipality Corporation (Salt Lake), etc.

ELOCUTION:
Participation in various elocution and debate competitions organized by West Bengal Govt., Kolkata Police, Bidhannagar Book Fair.

Awards & Felicitations: (post joining)

- **Team Silver medal** in Archery's Compound Women's event at "**7th Netaji Subhas State Games-2020**" held in Sports Authority of India (SAI), Kolkata.
  Organized by: Bengal Olympic Association (BOA).
  Date: 25th & 26th January, 2020.
- **Individual 3rd (Bronze)** in Compound Senior Women's event in **42nd State Archery Championship, 2020** held at Mahishadal, Purba Medinipur.
  Organized by: West Bengal Archers' Association (WBAA)
  Date: 29th February - 1st March, 2020.
- Awarded the status of **National Judge in Archery**, secured **1st position** in the examination in the 'East & North East Zone Judges and Technical Officials' Seminar' held at JRD TATA Sports Complex, Jamshedpur (Jharkhand) in 2021.
  Organized by: Archery Association of India (AAI)
- Awarded the status of **National Level -1 Archery Coach**, secured **1st position** in the examination in the 'East & North-East Zone Coaches' Seminar' held at at Bolpur, West Bengal from 9th to 13th March 2022
  Organized by: Archery Association of India (AAI)
- Awarded the status of **National Level -2 Archery Coach**, secured **1st position** in the examination in the 'Pan India Level - 2 Coaches Workshop' held in Chennai, Tamil Nadu from 12th to 16th July, 2023
  Organized by: Archery Association of India (AAI)
- Awarded the status of **WORLD ARCHERY LEVEL 1 Archery Coach**, secured **1st position** in the examination in the 'World Archery Coaches' Seminar held in **Lausanne, Switzerland** from 18th to 25th February, 2024
  Organized by: World Archery (WA)
- Honoured at 'Bangla Sangeet Mela' at Madhusudan Mukto Mancha
  Organized by: Department of Information & Cultural Affairs, Govt. Of WB, (Bangla Sangeet Mela Committee)