

Book Chapters

- 1) **Suparna Biswas**, "An Efficient Machine Learning based technique to Detect the Phishing Domain", Vision Viksit Bharat 2047-Paving India's Path to Growth and Development, ISBN No.: 978-81-97400. (Published in August 2024)
- 2) **Suparna Biswas, Anurima Majumdar**, Deep Learning for Detection of Cardiovascular Disease: A Review. In: Singh, S.P., Jain, D.K., Debayle, J. (eds) Healthcare Recommender Systems. Springer, Cham., May 2025
https://doi.org/10.1007/978-3-031-80056-6_15 (**Scopus indexed**)
- 3) **Suparna Biswas**, "Captioning Image using Deep Learning: A Novel Approach", in Book Vision Viksit Bharat 2047-Paving India's Path to Growth and Development as a chapter with ISBN-978-81-974000-2-5. (Published on 31st August, 2024)
- 4) Rabel Guharoy, Nanda Dulal Jana, **Suparna Biswas**, Aman Pandey, Chapter 18 - "Precise brain stroke prediction using different machine learning algorithms, In Advances in ubiquitous sensing applications for healthcare", Intelligent Biomedical Technologies and Applications for Healthcare 5.0, Academic Press, Volume 16, October, 2024, Pages 277-283, ISBN 9780443220388, <https://doi.org/10.1016/B978-0-443-22038-8.00018-0>. (**Scopus indexed**) (<https://www.sciencedirect.com/science/article/pii/B9780443220388000180>)
- 5) **Palasri Dhar, Avali Banerjee, Antara Ghosal**, Chapter Title: "Impact of Digital Technologies on Rural Livelihoods", "Vision Viksit Bharat 2047: Paving India's Path to Growth and Development", ISBN: 978-81-974000-2-5, August, 2024.
- 6) Sourish Mitra, Moloy Dhar, **Avali Banerjee**, Santanu Kumar Sen, Chapter Title: "IoT-based BCMS-Baby Cradle Monitoring System by providing proper Care, Comfort and Protection of a Baby Health", "Vision Viksit Bharat 2047: Paving India's Path to Growth and Development", ISBN: 978-81-974000-2-5, August, 2024.
- 7) Abhishek Das, Ankita Maiti, Abhishek Samanta, **Suparna Biswas, Koushik Pal, Kaushik Roy**, 'K-Means Algorithm and its Applications in Different Sectors', Proceedings of International Conference on Sustainable AI and its Applications (ICSAA 2025), ISBN: 978-93-341-6437-4, January 2025, Kolkata.
- 8) **Suparna Biswas, Koushik Pal**, Chapter 1, "EMPOWERING INDIA'S EDUCATION SYSTEM: REDEFINING LEADERSHIP FOR THE DIGITAL AGE TAUREAN PUBLICATIONS", Taurean Publications, ISBN: 978-93-48215-23-9, December 2024, DOI: <https://doi.org/10.5281/zenodo.15600535>.
- 9) **Koushik Pal, Anurima Majumdar, Antara Ghosal, Suparna Biswas**, Chapter 7, "Transforming Education with AI And XR Technologies", Empowering India's Education System: Redefining Leadership For The Digital Age, Taurean Publications, ISBN:978-93-48215-23-9, <https://doi.org/10.5281/zenodo.15600535>, December 2024.

- 10) **Suparna Biswas**, “Autism Detection: A Literature Review”, Proceedings of International Conference on Sustainable AI and its Applications (ICSAA 2025), ISBN: 978-93-341-6437-4, January 2025, Kolkata.
- 11) **Suparna Biswas**, “Image Captioning using Deep Learning Technique-A Novel Technique”, Proceedings of International Conference on "Recent Developments and Applications in Materials Science and Engineering (RDAMSE 2025), ISBN:978-81-983133-3-1, January 2025.
- 12) **Sunipa Roy**, Abhijit Kumar Pal, Sayan Chatterjee, Tien Anh Tran, “Spinel Nanoferrites for Waste Water Treatment for Sustainable Electronics: A Review”, Sustainable Electronics The Future Ahead, F. Ana, S. Arya, H. Mehraj (eds), ISBN: 9781032744841, May 2025, CRC Press <https://www.routledge.com/Sustainable-Electronics-The-Future-Ahead/Ana-Arya-Mehraj/p/book/9781032744841?srsltid=AfmBOooTlbPFTZY-Gt8zlGgH7GevC9Xqrrl-prUTosf-1PkjEz54XmL2>.
- 13) **Sunipa Roy et.al.**, Analytical Detection of Volatile Organic Compound by Supervised Learning Methods, December 2024, ISBN: 9781003428459, <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003428459-36/detection-diseases-mango-leaves-based-different-classification-algorithms-comparisons-using-machine-learning-pintu-das-mausumi-maitra-mazumdar-sudarshan-chakraborty-rajarsi-sanayal?context=ubx>, CRC Press.
- 14) **Sunipa Roy, Nabaneeta Banerjee et.al.**, “Properties of Materials for Micro/Nanoscale devices”, (Taylor & Francis group), ISBN: 9781032581910, <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003453635-2/properties-materials-micro-nanoscale-devices-sunipa-roy-nabaneeta-banerjee-susobhan-paul>, March 2025, CRC Press .
- 15) **Madhurima Sarkar**, Sudipto Mondal , Anuska Sarkar, **Avali Banerjee**, Chapter Title: “Skill-Building for Students in Tech and Innovation”, “EMPOWERING INDIA'S EDUCATION SYSTEM: REDEFINING LEADERSHIP FOR THE DIGITAL AGE”, ISBN: 978-93-48215-23-9, December 2024.
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- 17) **Madhurima Sarkar, Avali Banerjee**, Samrat Sinha, **Soma Boral**, Chapter Title: “A Study on Enhancing Employability through Education and Training”, “EXPLORING SOCIO-ECONOMIC DYNAMICS: INCLUSIVE GROWTH IN INDIA’S SUSTAINABLE FUTURE”, ISBN: 978-93-48215-73-4, December '2024.
- 18) **Madhurima Sarkar**, Souhardya Bose, **Soma Boral**, Anuska Sarkar, Chapter Title: “Educational Technologies: Role of Digital Platforms, Apps and Tools for Learning - Through an Indian and a Global Perspective”, “EXPLORING SOCIO-ECONOMIC DYNAMICS: INCLUSIVE GROWTH IN INDIA’S SUSTAINABLE FUTURE”, ISBN: 978-93-48215-73-4, December 2024.

- 19) **Soma Boral, Avali Banerjee, Madhurima Sarkar**, Swagatam Biswas, Chapter Title: “INNOVATIONS IN AGRICULTURE FOR RURAL ECONOMIC GROWTH”, “EXPLORING SOCIO-ECONOMIC DYNAMICS: INCLUSIVE GROWTH IN INDIA’S SUSTAINABLE FUTURE”, ISBN: 978-93-48215-73-4, December 2024.
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- 23) **Moloy Dhar, Suparna Biswas**, Leveraging AI, IoT and Big data for sustainable development, “EXPLORING SOCIO-ECONOMIC DYNAMICS: INCLUSIVE GROWTH IN INDIA’S SUSTAINABLE FUTURE”, ISBN: 978-93-48215-73-4, December 2024.
- 24) **Palasri Dhar**, “Role of Entrepreneurship and Business Development in India”, “Vision Viksit Bharat 2047: Paving India's Path to Growth and Development”, ISBN: 978-81-974000-2-5, August, 2024.

Books

- 1) **Sunipa Roy and Nabaneeta Banerjee**, “Business Intelligence and Data Mining”, String Production, ISBN No: 978-93-6048-359-3, July, 2024.
- 2) **Anurima Majumdar, Koushik Pal**, Anirban Ghoshal, Anirban Patra, “Fundamentals of Analog Electronic Circuits”, Orange Books Publication, ISBN: 978-9365540000, January 2025.
- 3) **Koushik Pal, Suparna Biswas**, Moumita pal, Soumen Ghosh, “Hand Book on Digital Image Processing”, Orange Books Publication, ISBN: 978-9365541540, January 2025.
- 4) **Sunipa Roy**, Abhijit Kumar Pal, **Antara Ghosal**, “Basic Electronics Engineering”, ISBN: 978-620-7-80986-8, String publication, India, January 2025.
- 5) **Suparna Karmakar, Suparna Biswas**, Trishita Ghosh, **Koushik Pal**, “Introduction To Formal Language And Automata Theory”, Orange Books Publication, ISBN: 978-9365549843, January 2025.
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- 8) **Avali Banerjee, Madhurima Sarkar, Soma Boral**, “IoT in Action: Transforming Lives”, Orange Books Publication, ISBN: 978-93-6554-688-0, June 2025.
- 9) Amit Debnath, Aveek Chattopadhyaya, **Suparna Biswas**, “Electric vehicle Battery Management & Traction Control”, Orange Books Publication, ISBN: 978-93-6554-790-0, April 2025.
- 10) Gunjan Mukherjee, **Palasri Dhar**, “Introduction to IT Systems Theory”, 3rd Edition, Lakshmi Prakashani, ISBN: 9788195456932, November 2024.