

Bhagwan Parshuram Institute of Technology

Details of Publications in Book Chapters

S.No	Name of Faculty	Title of the Chapter	Title of the Book	ISBN of the Book	Publisher of the Book	Status (Published/ Online Preprint/)	Month of the publication (in Numeric)	Year of the Publication	Vol. and Issue No.	Page Nos	DOI/URL no (if any)
1	Dr Shailendra Singh Gaur	Agricapital, a three-way agro-market aggregation using Cluster CRUD operations and role of ML in agriculture	Optimizing Smart and Sustainable Agriculture for Sustainability	ISBN9781003628392	Taylor & Francis Group, CRC Press	Published	July	2025	1st Edition	Chapter 9	https://doi.org/10.1201/9781003628392
2	Dr Shailendra Singh Gaur	Corona Tracker: An Application for Monitoring and Tracking Corona Disease	Data-Driven Analytics for Healthcare Artificial Intelligence and Machine Learning for Medical Diagnostics	ISBN 9781774917602	Apple Academic Press	Published	March	2025	1st Edition	Chapter 5	https://doi.org/10.1201/9781003558743
3	Dr. Tanim Ghosh	Enabling Sustainable Interaction - A Novel Approach to Hand Gesture-Based Action Recognition for Intelligent Systems	Communications in Computer and Information Science	Print ISSN 1865-0929	Springer Nature	Published	September	2024		157-170	https://doi.org/10.1007/978-3-031-71729-1_15
4	Arvind Sharma, Kavita Rani Segwal, Umang Sharma, Sugandha Gupta & Deepika Rathore	Smart Infrastructure: Integrating IOT, AI, and Optical Fiber Sensor	optical fiber sensors and ai exploring the fusion	978-981-96-6158-9	Springer Singapore	Published	July	2025	POSP,volume 34	121-135	https://doi.org/10.1007/978-981-96-6158-9_8
5	Arvind Sharma, Kavita Rani Segwal & Sugandha Gupta	Hybrid Systems Combining Traditional and AI-Enhanced Optical Fiber Sensors	optical fiber sensors and ai exploring the fusion	978-981-96-6158-9	Springer Singapore	Published	July	2025	POSP,volume 34	173-185	https://doi.org/10.1007/978-981-96-6158-9_11
6	Kavita Rani Segwal, Lalit Sharma, Arvind Sharma & Sugandha Gupta	Green Photonics Enhancing Supply Chain Management	Photonics and Optoelectronics in Industry 5.0	978-981-96-7593-7	Springer Singapore	Published	August	2025	Ist Edition	127-144	https://doi.org/10.1007/978-981-96-7594-4_8
7	Dr Megha Agarwal	Advancements in Security Technologies for Smart Cities: A Comprehensive Overview	Explainable IoT Applications: A Demystification	978-3-031-74885-1	Springer	Published	February	2025	Vol 21	361-378	https://doi.org/10.1007/978-3-031-74885-1
8	Dr. Preeti Singh	Enabling Sustainable Interaction - A Novel Approach to Hand Gesture-Based Action Recognition for Intelligent Systems	Communications in Computer and Information Science	978-3-031-71729-1	Springer, Cham	Published	September	2024	Edition Number1	157-170	https://link.springer.com/book/10.1007/978-3-031-71729-1
9	Dr. Rajiv Sharma	Promoting Sustainable Security by Implementing AES Algorithm for Enhanced Confidentiality in UART Serial Communication	Communications in Computer and Information Science ((CCIS,volume 2196))	978-3-031-71729-1	Springer, Cham	Published	September	2024	CCIS,volume 2196, Edition Number1	232-243	https://link.springer.com/chapter/10.1007/978-3-031-71729-1_21
10	Dr Pavika Sharma	Enabling Sustainable Interaction - A Novel Approach to Hand Gesture-Based Action Recognition for Intelligent Systems	Communications in Computer and Information Science	978-3-031-71729-1	Springer, Cham	Published	September	2024	Edition Number1	157-170	https://link.springer.com/book/10.1007/978-3-031-71729-1
11	Dr Pavika Sharma	Application of AI in Environmental Sustainability	<u>Artificial Intelligence-Driven Models for Environmental Management</u>	9781394282555	John Wiley & Sons, Inc.	Published	July	2025		1-41	https://doi.org/10.1002/9781394282555.ch1

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12	Dr Pavika Sharma	Enabling trustworthy data sharing and collaborative insights in healthcare analytics	Secure Big-data Analytics for Emerging Healthcare in 5G and Beyond : Concepts, paradigms, and solutions	9781839539053	The Institution of Engineering and Technology	Published	November	2024		45-167	https://doi.org/10.1049/PBHE063E_ch8
13	Dr. Nitish Pathak	Amalgamation of Artificial Intelligence (AI) and Data Science in Taxation	Advanced Digital Technologies in Financial and Business Management	9781003558279	Apple Academic Press, Taylor & Francis Group, USA, (Scopus Indexed)	Published	July	2025	First Edition	1-14	https://doi.org/10.1201/9781003558279
14	Dr. Nitish Pathak	Unleashing the Power of AI in Business, Finance, Industry 4.0, and Banking 4.0"	Advanced Digital Technologies in Financial and Business Management	9781003558279	Apple Academic Press, Taylor & Francis Group, USA, (Scopus Indexed)	Published	July	2025	First Edition	157-174	https://doi.org/10.1201/9781003558279
15	Dr. Nitish Pathak	Application of Data Science and Artificial Intelligence in Retail Sector	Advanced Digital Technologies in Financial and Business Management	9781003558279	Apple Academic Press, Taylor & Francis Group, USA, (Scopus Indexed)	Published	July	2025	First Edition	291-312	https://doi.org/10.1201/9781003558279
16	Dr. Nitish Pathak	Human Machine Collaboration in Business Process	Advanced Digital Technologies in Financial and Business Management	9781003558279	Apple Academic Press, Taylor & Francis Group, USA, (Scopus Indexed)	Published	July	2025	First Edition	195-222	https://doi.org/10.1201/9781003558279
17	Dr. Nitish Pathak	Analysis of human brain using Basic Computer Interface (BCI) system	Neural Network Technologies and Brain-Computer Interfaces: Innovations and Applications	9798369394458	IGI Global, USA. SCOPUS	Published	June	2025	First Edition	1-20	DOI: 10.4018/979-8-3693-9445-8
18	Dr. Nitish Pathak	Fundamental approach toward artificial neural network in brain computer interface	Neural Network Technologies and Brain-Computer Interfaces: Innovations and Applications	9798369394458	IGI Global, USA. SCOPUS	Published	June	2025	First Edition	155-174	DOI: 10.4018/979-8-3693-9445-8
19	Ms.Prachi Kaushik	- Eco Conscious Sensor Networks and Smart Record Management for Sustainable	Responsible Innovation in Smart Healthcare : AI, IoT, and Ethical Sustainability Practices	9798337357911	IGI GLOBAL Scientific Publishing	Published	July	2025		191-214	https://doi.org/10.4018/979-8-3373-5791-1.ch008
20	Ms. Prachi Kaushik	Sustainable Dynamic Bus Management System Using Machine Learning and IoT	Communications in Computer and Information Science	978-3-031-71729-1	Springer, Cham	Published	September	2024	Edition Number1	263-272	https://doi.org/10.1007/978-3-031-71729-1_24
21	Dr. Komal Bhagat	- Eco Conscious Sensor Networks and Smart Record Management for Sustainable	Responsible Innovation in Smart Healthcare : AI, IoT, and Ethical Sustainability Practices	9798337357911	IGI GLOBAL Scientific Publishing	Published	July	2025		191-214	https://doi.org/10.4018/979-8-3373-5791-1.ch008
22	Dr. Komal Bhagat	Sustainable Dynamic Bus Management System Using Machine Learning and IoT	Communications in Computer and Information Science	978-3-031-71729-1	Springer, Cham	Published	September	2024	Edition Number1	263-272	https://doi.org/10.1007/978-3-031-71729-1_24

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23	Dr. Gayatri Chopra	Object-Oriented Software Engineering Security Practices in Healthcare Analytics: Ensuring Data Integrity and Compliance	ICT: Applications and Social Interfaces. ICTCS 2024. Lecture Notes in Networks and Systems,	978-981-96-4138-3	Springer	Published	August	2025	vol 1323	417-425	https://doi.org/10.1007/978-981-96-4139-0_36
24	Dr. Gayatri Chopra	Towards Intelligence Governance: The role of AI in Policy Making and Decision Support for E Governance.	Information Systems for Intelligent Systems. ISBM 2023. Smart Innovation, Systems and Technologies	978-981-99-8612-5	Springer	Published	February	2024	vol 379	229-240	//doi.org/10.1007/978-981-99-8612-5_19
25	Dr. Deepika Sandil	Optical and Photonic Properties in Polymer Nanocomposites	Polymer-Based Functional Nanocomposites Applications and Prospects	9781003527602	Taylor& Francis group	Published	September	2025		78-96	https://doi.org/10.1201/9781003527602
26	Dr. Charu Gupta	Swarm Intelligence based Grasshopper Optimization Recommender System	Modern Artificial Intelligence Based on Soft Computing Techniques	978-3-031-88278-4	Springer, Cham	Published	June	2025	vol 1204	167-178	https://link.springer.com/chapter/10.1007/978-3-031-88279-1_12
27	Dr. Charu Gupta	Artificial Intelligence in Education (Book)	Artificial Intelligence in Education (Book)	9348460250	Vinsa Publication	Published	June	2025	Ed 1	NA	https://www.amazon.in/Artificial-Intelligence-Education-Yaragantham-Kondagurle/dp/9348460250
28	Dr. Charu Gupta	Use of AI with Optimization techniques: Case study,Challenges and Future trends	Generative Artificial Intelligence for Biomedical and Smart Health Informatics	978-1-394-28071-1	Wiley-IEEE Press	Published	January	2025	Ed. 1	209 - 238	https://onlinelibrary.wiley.com/doi/10.1002/9781394280735.ch11
29	Dr. Bhawna Suri, Dr Shweta Taneja	Moving towards sustainable and smart agriculture	Optimizing Smart and Sustainable Agriculture for Sustainability	9781032657943	CRC Press	Published	July	2025	First Edition	129-146	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003628392-7/moving-towards-sustainable-smart-agriculture-nidhi-sharma-shweta-taneja-bhawna-suri
30	Dr. Himani	A Survey on Machine Learning Applications in Neuroimaging	Integrating Neuroimaging, Computational Neuroscience, and Artificial Intelligence	9781032701899	CRC Press	Published	December	2024	First Edition	29-43	https://www.taylorfrancis.com/chapters/edit/10.1201/9781032711102-3/survey-machine-learning-applications-neuroimaging-himani-sharma-aditya-azad-singh-aman-pratap-singh-ashish
31	Ms. Soumya Sharma, Prof Achal Kaushik	Using Natural Language Processing to Improve Safety in the Internet of Vehicles	Federated Learning Based Intelligent Systems to Handle Issues and Challenges in IoVs (Part 1)	978-981-5313-02-4	Bentham Science Publisher	Published	December	2024		175-195	https://doi.org/10.2174/9789815313031124030008
32	Dr. Monika Arora	Navigating the Data Science Frontier: Unveiling the Life Cycle, Algorithms, Challenges, and Future Prospects	Data-Driven Marketing for Strategic Success	9798370000000	IGI Global, Scopus	Published	August	2024	NA	167-189	DOI: 10.4018/979-8-3693-3455-3.ch007
33	Prof Manoj Kumar Gupta	Analysis of Various Health Care Systems for Heart Disease Prediction	Machine Learning, Advances in Computing, Renewable Energy and Communication	978-981-97-5230-0 (P), 978-981-97-5231-7 (O)	Springer, Singapore	Published	12	2024	1232		https://doi.org/10.1007/978-981-97-5231-7_32

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34	Prof Manoj Kumar Gupta	Data Quality Management Framework for Data Warehouse	Handbook of Disruptive Technologies	9781032700953 (O)	CRC Press, Taylor & Francis	Published	2	2025	1		https://doi.org/10.1201/9781032700953
35	Dr Rachna Jain	Smart Crop Management Harnessing Green IoT Tomorrow	Emerging Smart Agricultural Practices Using Artificial Intelligence	978-1-394-27425-3	WILEY IEEE	Published	6	2025			https://doi.org/10.1002/9781394274277.ch14
36	Dr Rachna Jain	Integrating Green IoT with Precision Agriculture A Paradigm Shift in Sustainable Farming Practices	Optimizing Smart and Sustainable Agriculture for Sustainability	9781032657943	CRC Press	Published	7	2025			
37	Dr C.M. Sharma	Agricapital, a three-way agro-market aggregation using Cluster CRUD operations and role of ML in agriculture	Optimizing Smart and Sustainable Agriculture for Sustainability	9781003628392	Taylor & Francis Group, CRC Press	Published	7	2025	1		https://doi.org/10.1201/9781003628392
38	Dr C.M. Sharma	Corona Tracker: An Application for Monitoring and Tracking Corona Disease	Data-Driven Analytics for Healthcare Artificial Intelligence and Machine Learning for Medical Diagnostics	9781774917602	Apple Academic Press	Published	2	2025	1		https://doi.org/10.1201/9781003558743
39	Dr Aman Dureja	Combining Digital Twin Technology and Intelligent Transportation Systems for Smart Mobility	Transforming Industry using Digital Twin Technology	978-3-031-58523-4	Springer	Online Preprint	5	2024			https://doi.org/10.1007/978-3-031-58523-4_14
40	Dr Varsha Sharma	A comparative study on stock market prediction using ML algorithms	Proceedings of International Conference on Generative AI, Cryptography and Predictive Analytics	978-981-97-9132-3	Scopus	Published	3	2025			https://doi.org/10.1007/978-981-97-9045-6_25

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Sr. No	Name of the Faculty	Title of the Book	Type of Book (Text / Reference / Edited / Compiled)	Level of the Book (National / International)	ISBN of the Book	Publisher of the Book	Month of the Publication (in Numeric)	Year of the Publication
1	Dr. Neha Garg	Business Analytics	Text	National	9788198543318	Ane Publishers	4	2025
2	Dr Pavika Sharma	Artificial Intelligence and Machine Learning for Sustainable Development	Edited	International	9781003497189	CRC Press, Taylor & Francis	12	2024
3	Dr Pavika Sharma	Cutting-Edge Solutions for Advancing Sustainable Development: Exploring Technological Horizons for Sustainability-Part 1	Edited	International	9789815305555	Bentham Science Publishers Pte. Ltd. Singapore	3	2025
4	Dr. Nitish Pathak	Green Computational Intelligence: Sustainable Strategies and Emerging Technologies	Edited	International	9781394383610	Wiley-Scrivener, USA (Scopus Indexed)	9	2025
5	Dr. Nitish Pathak	A Magnification of power of AI, ML, Blockchain and IOT in Financial and Business Management	Edited	International	9781774917688	Apple Academic Press, Taylor & Francis Group, USA, (Scopus Indexed)	7	2025
6	Dr. Nitish Pathak	Integrating Metaheuristics in Computer Vision for Real-World Optimization Problems	Edited	International	978-1-394-23092-1	Wiley-Scrivener, USA (Scopus Indexed)	8	2024
7	Dr. Gayatri Chopra	Business Analytics: Business Insights using Advanced Excel and Python	Text	International	978-620-8-42866-2	Lambert Academic Publishing		2025
8	Dr Bhawna Suri and Dr Shweta Taneja	Sustainable Farming Revolution	Edited	National	978-93-6556-643-7	AMKCORP ACADEMICS	2	2025

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9	Prof Manoj Kumar Gupta	Database Management Systems	Reference Book	National	978-93-6260-980-9	Charulatha Publications	8	2024
10	Dr Rachna Jain	Object Tracking in Video Streams: Trends and Application	Edited	International	978-981-99-3287-0	Springer	9	2024
11	Dr Rachna Jain	Optimizing Smart and Sustainable Agriculture for Sustainability	Edited	International	9781003628392	CRC Press	7	2025
12	Dr Rachna Jain	Emerging Smart Agricultural Practices Using Artificial Intelligence	Edited	International	978-1-394-27425-3	WILEY IEEE	6	2025