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Patents

Granted / Filed Patent Applications/ Copyrights

- 1.
2. Computer controlled robot for social distancing and monitoring Application Number: **510717-001**, Status: Submitted.
3. The Quantum Threat: Cybersecurity in Tomorrow's World (2026) – Copyright Registered, Government of India, Copyright Act, 1957. Application No.: **LD-7592/2026-CO**; **Date of Registration: 09 June 2026**.
4. AI-Based Management Decision Support Device Application Number: **504005-001** Status: Design Accepted and Published, Journal No is 29/2026 and Journal Date is 17/07/2026.
5. Blockchain-Based Quantum Financial Security Device Application Number: **504004-001** Status: Submitted - Examination Report has been Generated Case is waiting for Examination Report Reply (FER generated on 07/07/2026)
6. Blockchain and Quantum FinTech Processing Device, Application Number: **488266-001**, Status: Submitted.
7. AI-Based Adaptive Learning Assistance Device, Application Number: **501550-001** Status: Submitted- Examination Report has been Generated, Case is waiting for Examination Report Reply (FER generated on 30/06/2026)
8. AI-Powered Portable Vital Signs Analysis Device Application number **501344-001**, Status: Submitted- Examination Report has been Generated, Case is waiting for Examination Report Reply (FER generated on 17/07/2026).
9. IoT-Based Medical Monitor Wearable Device, Application Number: **434883-001**, Status: Design Accepted and Published, Journal No is 07/2025, and **Journal Date is 14/02/2025**.
10. Biosensor Device to Detect Lung Cancer, Application Number: **419199-001**, Status: Design Accepted and Published, Journal No is 20/2025, and **Journal Date is 16/05/2025**
11. Wearable Device for Vital Signs Monitoring of Pregnant Women Application Number: **427816-001** Status: Design Accepted and Published, Journal No is 43/2024, and **Journal Date is 25/10/2024**.
12. Smart Mobile Charging Device Using Solar Panels, Application Number: **343062-001**, Status: Design Accepted and Published, Journal No is 52/2023, and **Journal Date is 29/12/2023**.
13. Portable 3D Scanner, Application Number: **362998-001**, Status: Design Accepted and Published, Journal No is 38/2022, and **Journal Date is 23/09/2022**.

Peer-Reviewed, Journal & Conference Publications

- 1.
2. Adaptive Edge Intelligence for Sustainable IoT-Based Smart City Infrastructure. Published in: 2026 IEEE 1st International Conference on Intelligent Technologies for a Sustainable and Inclusive Future (ICITSIF), held on 29-30 May 2026. The Publication Carries Electronic ISBN: 979-8-3315-7059-0 Print on Demand (PoD) with DOI: 10.1109/ICITSIF69060.2026.11609177, **IEEE Xplore (Scoups)**.
3. Post-Quantum Cryptography for Next-Generation High-Bandwidth Communication Systems was Published in: 2026 13th International Conference on Computing for Sustainable Global Development (INDIACom), held on 08-10 April 2026. The Publication Carries Electronic ISBN:978-93-80544-64-9 Print on Demand (PoD) ISBN:979-8-3315-6485-8, With DOI: 10.23919/INDIACom70271.2026.11526004. **IEEE Xplore (Scoups)**.
4. Quantum Machine Learning Models for Enhancing Big Data Analytics was published in the proceedings of the 2025 International Conference on Future Technologies (ICFT), held on 07–08 November 2025. The publication carries Electronic ISBN 979-8-3315-6815-3 and Print-on-Demand ISBN 979-8-3315-6816-0, with DOI: 10.1109/ICFT66708.2025.11336505. **IEEE Xplore (Scoups)**
5. Scalable Quantum Computing Approaches for Next-Generation Edge and IoT Devices was published in the proceedings of the 2025 International Conference on Future Technologies (ICFT), held on 07–08 November 2025. The publication carries Electronic ISBN 979-8-3315-6815-3 and Print-on-Demand ISBN 979-8-3315-6816-0, with DOI: 10.1109/ICFT66708.2025.11336505. **IEEE Xplore (Scoups)**
6. Optimizing Soil Moisture Prediction and Crop Yield Enhancement for Medicinal Plants Using Convolutional Neural Networks in Precision Agriculture
Conference: 2025 International Conference on Artificial Intelligence & Computing (CIACON) Date of Conference: 18–19 July 2025 Publisher: IEEE Date Added to IEEE Xplore: 09 Oct 2025 Electronic ISBN: 979-8-3315-4411-9 Print on Demand (PoD) ISBN: 979-8-3315-4412-6 DOI: 10.1109/CIACON65473.2025.11189722. **IEEE Xplore (Scoups)**
7. Eco-Friendly Composites from Waste Materials Journal: Ecological Engineering & Environmental Technology Year: 2025 Volume: 11 Pages: 60–82 DOI: <https://doi.org/10.12912/27197050/211229>.
8. Exploring Methods for Dealing with Class Imbalances in Supervised Machine Learning Structured Datasets Published in: 2023 3rd International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS)Publisher: IEEE Publication Date: 18 May 2023 Pages: 209–214 DOI: 10.1109/ACCESS57397.2023.10199296 Indexed in: **IEEE Xplore (Scoups)**
9. Role of Internet of Things in Protecting Wearable Gadgets and Materials – Materials Today: Proceedings Ref: MATPR28112 | PII: S2214-7853(21)06839-5 (Published) **Indexed in: SCI**
10. Data Loss and Recovery in the Digital World – International Conference, 09 Jan 2021 ISSN: 2454-8596 (Presented & Published).
11. E-Drug Stores in India: Can They Improve Drug Administration Delivery – International Conference, 27 Feb 2021 ISSN: 2454-8596 (Presented & Published)

12. An Exploratory Study on Online Restaurant Management System – CT International Hospitality & Tourism E-Conference, 19 Dec 2020 UIJIR ISSN (O): 2582-6417 (Presented)
13. Trends Related to Modern Engineering Research and Technology – International Multidisciplinary Referred E-Journal, 01 Dec 2020 ISSN: 2454-8596 (Presented & Published)
14. Folder-Protecting Lock Program – IMARC International Conference, 2019 ISBN: 978-81-942282-0-2 (Presented & Published).

Peer-Reviewed Book Chapters

- In-Depth Exploration of Unsupervised Learning Algorithms and Techniques for Pattern Discovery
 Author: P. Prasant Pages: 38 | © 2024 DOI: 10.71443/9788197282164-07 Received: 31 Jan 2024 Accepted: 07 Apr 2024 | Published: 22 Jun 2024
- Optimizing Model Training and Hyperparameter Tuning for IoT Data
 Author: P. Prasant Pages: 27 | © 2024 DOI: 10.71443/9788197282102-10 Received: 08 Apr 2024 Accepted: 12 Jun 2024 | Published: 08 Aug 2024

Book Publication

1. Cyber Security: Understanding Cyber Crimes and Cyber Forensics (ISBN: 978-93-7196-978-9) - 2026
2. The Quantum Threat: Cybersecurity in Tomorrow's World (ISBN: 978-93-7020-600-7) – 2025
3. Business Finance (ISBN: 978-93-5577-109-4) – 2023
4. Supply Chain Management for Engineers (ISBN: 978-93-94339-76-7) – 2022
5. Database Management System (ISBN: 978-93-94002-43-2) – 2022
6. Management Information System (ISBN: 978-81-954079-5-8) – 2022
7. The C Programming Language (ISBN: 978-93-90528-98-1) – 2021
8. .NET Technology (ISBN: 978-81-954079-6-5) – 2022