

Patents Granted or Published 2024-25

SL NO	Patent Application No.	Inventors Name	Title of the Patent	Patent File Date	Patent Published/Grant Date
1	202531020725	Dr. Debasis Maji; Dr. Sunanda Hazra; Dr. Dilip Dey; Dr. Palash Pal; Mrs. Alpana Barman; Mr. Goutam Das; Mr. Sourav Kumar Das; Dr. Pratyay Konar; Mr. Saubhik Maulik; Mrs. <u>Angana Chakraborty</u>	Real-Time Diabetic Retinopathy Detection System Using Deep Learning	07/03/2025	04/04/2025
2	435995-001	Dr. Santanu Koley, Dr. Jayeeta Majumder, Dr. Moumita Das, Dr. Arindam Giri , Dr. Nabanita Das, Dr. Sudipta Bhattacharya, Patrali Pradhan, Abhijit Debnath, Dr. Kisalaya Chakraborti, Dr. Krishna Chnadra Mishra	Portable Machine Learning Based Heart Health Monitoring Device	29.10.2024	21.02.2025
3	202441062450	Dr. Subir Gupta; Papri Ghosh; Joyjit Patra; Aratrika Banerjee; Arpan Ghosh ; Susanta Banerjee; Amrita Sarkar; Asis Kumar Bhunia;	Autonomous Robotic System for High-Precision Metal Detection with Integrated GPS Mapping and Real-Time Data Transmission	19/08/2024	30/08/2025
4	202421072283	Priti Ashok Jain; Dr. Rohit Singh; Dr. Aditya Ghosh; Shreedevi P; Arpan Ghosh ; Reshmi Maulik; Dr. Seema Sahai; Tamosa Chakraborty; Nitasha Barara	An Integrated Machine Learning, IoT, and Data Analytics System For Autonomous Control and Cybersecurity	25/09/2024	01/11/2024
5	202441062449	Dr. Subir Gupta; Pinki Pramanik; Upasana Adhikari P; Abhik Choudhary; Shefali Varshney; Arpan Ghosh ; Susanta Banerjee; Kamaluddin Mandal; Dipankar Roy; Priyonko Das	Futuristic Smart Wheelchar: AI-Controlled Mobility with Smartphone Integration for Enhanced Accessibility	19/08/2024	30/08/2024
6	202531004729 A	Dr. Pinaki Pratim Acharjya; Ramsundar Ghorai; Sougata Sikdar; Rajrupa Metia; Dr. Moumita Das; Palash Ray; Amrita Sarkar ; S. K. Hojayfa Rahaman	An Enhanced Fingerprint Segmentation Method Using Watershed Algorithm for Biometrics	21/01/2025	31/01/2025

7	202441062450	Dr. Subir Gupta; Papri Ghosii; Joyjit Patra; Aratrika Banekjee; Arpan Ghosh; Susanta Banerjee; Amrita Sarkar ; Asis Kumar Bhunia; Jayashri Deb Sinha; Pratik Halder; Sukanta Kundu; Priyonko Das	Autonomous Robotic System for High-Precision Metal Detection with Integrated GPS Mapping and Real-Time Monitoring	19/08/2024	30/08/2024
8	2024/02361	Dr. Santanu Koley, Rajrupa Metia, Rajesh Mukherjee , Dr. Bidesh Chakraborty , Dr. Deepa Naik, Sonal Sameer Bawankule, Dr. Chiranjib Chakravartty, Dr. Durga Prasad Sharma, Dr. Manojit Bhattacharya, Patrali Pradhan	A Cloud Computing System For Extended Battery Life And Enhanced Performance	25/03/2024	30/10/2024
9	202531004726 A	Dr. Pinaki Pratim Acharjya; S K Hojayfa Rahaman ; Mahuya Sasmal; Dr. Moumita Das; Rajrupa Metia; Dr. Sumanta Kuila; Sougata Sikder; Tapas Saha; Ramsundar Ghorai	An Enhanced Image Segmentation Method Using Watershed Transform In a Grid Computing Environment	21/01/2025	31/01/2025
10	202531004729 A	Dr. Pinaki Pratim Acharjya; Ramsundar Ghorai; Sougata Sikdar; Rajrupa Metia; Dr. Moumita Das; Palash Ray; Amrita Sarkar; S. K. Hojayfa Rahaman	An Enhanced Fingerprint Segmentation Method Using Watershed Algorithm for Biometrics	21/01/2025	31/01/2025
11	202431062859	Dr. Moumita Das; Dr. Subhankar Joardar; Dr. Jayeeta Majumder ; Subhabrata Barman; Jayashri Deb Sinha; Dr. Mihir Baran Bera; Dr. Pinaki Pratim Acharjya	A System and Method for Real-Time Patient Monitoring and Analysis Using Wireless Sensor	20/08/2024	30/08/2024
12	202431062860	Dr. Jayeta Majumder ; Saikat Khanra; Dr. Mihir Baran Bera; Subhabrata Barman; Dr. Moumita Das; Dr. Subhankar Joardar; Jayashri Deb Sinha; Dr. Pinaki Pratim Acharjya	A Method for Enhanced Image Steganography with Pixel Value Differencing and Neural Network Optimized Data Compression	20/08/2024	30/08/2024

13	202431062861	Jayashri Deb Sinha; Dr. Jayeeta Majumder ; Dr. Moumita Das; Dr. Mihir Baran Bera; Dr. Subhankar Joardar; Subhabrata Barman; Dr. Pinaki Pratim Acharjya	A System and Method for Adaptive Management of Disconnected Nodes in Wireless Sensor Network	20/08/2024	30/08/2024
14	202431063080	Dr. Subhankar Joardar; Jayashri Deb Sinha; Dr. Mihir Baran Bera; Dr. Jayeeta Majumder ; Subhabrata Barman; Dr. Moumita Das; Saikat Khanra; Dr. Pinaki Pratim Acharjya	Swarm Intelligence Based Probabilistic congestion control and Path Selection in Mobile Ad hoc Networks	20/08/2024	30/08/2024
15	202531004715 A	Dr. Pinaki Pratim Acharjya; Dr. Mihir Baran Bera; Dr. Biplab Sinha Mahapatra; Dr. Manoj Kumar Mondal; Dr. Jayeeta Majumder ; Aratrika Banerjee; Arpita Shome; Susanta Banerjee; Sudip Mishra	An Enhanced Image Segmentation Method and System for Grayscale Images Using Statistical Moments In Watershed Transformations	21/01/2025	31/01/2025
16	435995-001	Dr. Santanu Koley, Dr. Jayeeta Majumder , Dr. Moumita Das, Dr. Arindam Giri, Dr. Nabanita Das, Dr. Sudipta Bahttacharya, Patrali Pradhan, Abhijit Debnath, Dr. Kisalaya Chakraborti, Dr. Krishna Chandra Mishra	Portable Machine Learning Based Heart Health Monitoring Device	29.10.2024	21.02.2025
17	202331074573	Dr. Pinaki Pratim Acharjya; Dr. Santanu Koley; Dr. Moumita Das; Patrali Pradhan, Dr. Jayeeta Majumder ; Dr. Mihir Baran Bera; Tahamina Yesmin; Umesh Pal; Kalyan Maji	AN OPTIMAL MATHEMATICAL MORPHOLOGY AND K-MEAN CLUSTERS BASED METHOD FOR SEGMENTING IMAGES	02/11/2023	01/12/2023
18	202431062859	Dr. Moumita Das ; Dr. Subhankar Joardar; Dr. Jayeeta Majumder; Subhabrata Barman; Jayashri Deb Sinha; Dr. Mihir Baran Bera; Dr. Pinaki Pratim Acharjya	A System and Method for Real-Time Patient Monitoring and Analysis Using Wireless Sensor	20/08/2024	30/08/2024
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20	202431062861	Jayashri Deb Sinha; Dr. Jayeeta Majumder; Dr. Moumita Das ; Dr. Mihir Baran Bera; Dr. Subhankar Joardar; Subhabrata Barman; Dr. Pinaki Pratim Acharjya	A System and Method for Adaptive Management of Disconnected Nodes in Wireless Sensor Network	20/08/2024	30/08/2024

21	202431063080	Dr. Subhankar Joardar; Jayashri Deb Sinha; Dr. Mihir Baran Bera; Dr. Jayeeta Majumder; Subhabrata Barman; Dr. Moumita Das ; Saikat Khanra; Dr. Pinaki Pratim Acharjya	Swarm Intelligence Based Probabilistic congestion control and Path Selection in Mobile Ad hoc Networks	20/08/2024	30/08/2024
22	202531004726 A	Dr. Pinaki Pratim Acharjya; S K Hojayfa Rahaman; Mahuya Sasmal; Dr. Moumita Das ; Rajrupa Metia; Dr. Sumanta Kuila; Sougata Sikder; Tapas Saha; Ramsundar Ghorai	An Enhanced Image Segmentation Method Using Watershed Transform In a Grid Computing Environment	21/01/2025	31/01/2025
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27	202431063259 A	Dr. Santanu Koley; Jayasri Deb Sinha; Dr. Raja Rawat; Dr. Mrinmoy Sen ; Dr. Deep Suman Dev; Sunanda Jana; Dr. Dipankar Dutta; Aratrika Banerjee; Mamani Bandyopadhyay; Hidam Rameswar Sing	A Decentralized Cloud Storage System With Blockchain and Quantum Resistant Encryption for Enhanced Data Security	21/08/2024	30/08/2024
28	6431510	Dr. Santanu Koley , Dr. Mrinmoy Sen, Sunanda Jana, Dr Vijaya Choudhary, Dr. Chiranjib Chakravartty, Dr Poruran Sivakumar, Dr. Arpita Das, Dr. Sk. Sahnawaz, Dr. Apratim Mitra, Rajrupa Metia	Sleek Artificial Intelligence Computing USB Stick		04.04.2025

29	202431059143 A	Dr. Santanu Koley; Patrali Pradhan	A Method for Dynamic Optimization of Rural Healthcare Applications Using Machine Learning and Mathematical Models	05/08/2024	23/08/2024
30	435995-001	Dr. Santanu Koley, Dr. Jayeeta Majumder, Dr. Moumita Das, Dr. Arindam Giri, Dr. Nabanita Das, Dr. Sudipta Bahttacharya, Patrali Pradhan , Abhijit Debnath, Dr. Kisalaya Chakraborti, Dr. Krishna Chnadra Mishra	Portable Machine Learning Based Heart Health Monitoring Device	29.10.2024	21.02.2025
31	2024/02361	Dr. Santanu Koley, Rajrupa Metia, Rajesh Mukherjee , Dr. Bidesh Chakraborty, Dr. Deepa Naik, Sonal Sameer Bawankule, Dr. Chiranjib Chakravartty, Dr. Durga Prasad Sharma, Dr. Manojit Bhattacharya, Patrali Pradhan	A Cloud Computing System For Extended Battery Life And Enhanced Performance	25/03/2024	30/10/2024
32	202331074573	Dr. Pinaki Pratim Acharjya; Dr. Santanu Koley; Dr. Moumita Das; Patrali Pradhan , Dr. Jayeeta Majumder; Dr. Mihir Baran Bera; Tahamina Yesmin; Umesh Pal; Kalyan Maji	AN OPTIMAL MATHEMATICAL MORPHOLOGY AND K-MEAN CLUSTERS BASED METHOD FOR SEGMENTING IMAGES	21/01/2025	31/01/2025
33	202431062859	Dr. Moumita Das; Dr. Subhankar Joardar; Dr. Jayeeta Majumder; Subhabrata Barman; Jayashri Deb Sinha; Dr. Mihir Baran Bera; Dr. Pinaki Pratim Acharjya	A System and Method for Real-Time Patient Monitoring and Analysis Using Wireless Sensor	22/08/2024	30/08/2024
34	202431062860	Dr. Jayeta Majumder; Saikat Khanra; Dr. Mihir Baran Bera; Subhabrata Barman; Dr. Moumita Das; Dr. Subhankar Joardar; Jayashri Deb Sinha; Dr. Pinaki Pratim Acharjya	A Method for Enhanced Image Steganography with Pixel Value Differencing and Neural Network Optimized Data Compression	20/08/2024	30/08/2024
35	202431062861	Jayashri Deb Sinha; Dr. Jayeeta Majumder; Dr. Moumita Das; Dr. Mihir Baran Bera; Dr. Subhankar Joardar; Subhabrata Barman; Dr. Pinaki Pratim Acharjya	A System and Method for Adaptive Management of Disconnected Nodes in Wireless Sensor Network	20/08/2024	30/08/2024
36	202431063080	Dr. Subhankar Joardar; Jayashri Deb Sinha; Dr. Mihir Baran Bera; Dr. Jayeeta Majumder; Subhabrata Barman; Dr. Moumita Das; Saikat Khanra; Dr. Pinaki Pratim Acharjya	Swarm Intellignce Based Probabilistic congestion control and Path Selection in Mobilee Ad hoc Networks	20/08/2024	30/08/2024

37	202531004715 A	Dr. Pinaki Pratim Acharjya ; Dr. Mihir Baran Bera; Dr. Biplab Sinha Mahapatra; Dr. Manoj Kumar Mondal; Dr. Jayeeta Majumder; Aratrika Banerjee; Arpita Shome; Susanta Banerjee; Sudip Mishra	An Enhanced Image Segmentation Method and System for Grayscale Using Statistical Moments In Watershed Transformations	21/01/2025	31/01/2025
38	202531004722 A	Dr. Pinaki Pratim Acharjya ; Susanta Banerjee; Arpita Shome; Aratrika Banerjee; Sudip Mishra; Dr. Manoj Kumar Mondal; Dr. Biplab Sinha Mahapatra; Umesh Pal; Dr. Mihir Baran Bera	A Hybrid Method for Edge Detection In Image Processing Systems Using Gradient And Laplacian Operators	21/01/2025	31/01/2025
39	202531004726 A	Dr. Pinaki Pratim Acharjya ; S K Hojayfa Rahaman; Mahuya Sasmal; Dr. Moumita Das; Rajrupa Metia; Dr. Sumanta Kuila; Sougata Sikder; Tapas Saha; Ramsundar Ghorai	An Enhanced Image Segmentation Method Using Watershed Transform In a Grid Computing Environment	21/01/2025	31/01/2025
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45	202531004726 A	Dr. Pinaki Pratim Acharjya; S K Hojayfa Rahaman; Mahuya Sasmal; Dr. Moumita Das; Rajrupa Metia ; Dr. Sumanta Kuila; Sougata Sikder; Tapas Saha; Ramsundar Ghorai	An Enhanced Image Segmentation Method Using Watershed Transform In a Grid Computing Environment	21/01/2025	31/01/2025

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47	2024/02361	Dr. Santanu Koley; Rajrupa Metia; Rajesh Mukherjee ; Dr. Bidesh Chakraborty; Dr. Deepa Naik; Sonal Sameer Bawankule; Dr. Chiranjib Chakravartty; Dr. Durga Prasad Sharma; Dr. Manojit Bhattacharya; Patrali Pradhan	A Cloud Computing System For Extended Battery Life And Enhanced Performance	25/03/2024	30/10/2024
48	2024/02361	Dr. Santanu Koley, Rajrupa Metia , Rajesh Mukherjee , Dr. Bidesh Chakraborty, Dr. Deepa Naik, Sonal Sameer Bawankule, Dr. Chiranjib Chakravartty, Dr. Durga Prasad Sharma, Dr. Manojit Bhattacharya, Patrali Pradhan	A Cloud Computing System For Extended Battery Life And Enhanced Performance	25/03/2024	30/10/2024
49	435994-001	Dr. Santanu Koley; Mrs. Rajrupa Metia ; Mrs. Debrupa Metia; Mrs. Razia Sultana	Machine Learning-Enabled Network Security Device With Adaptive Threat Detection	29/10/2024	
50	6431510	Dr. Santanu Koley, Dr. Mrinmoy Sen, Sunanda Jana, Dr. Vijaya Choudhary , Dr. Chiranjib Chakravartty, Dr. Poruran Sivakumar, Dr. Arpita Das, Dr. Sk	Sleek Artificial Intelligence Computing USB Stick		04/04/2025
51	202431062859	Dr. Moumita Das; Dr. Subhankar Joardar; Dr. Jayeeta Majumder; Subhabrata Barman ; Jayashri Deb Sinha; Dr. Mihir Baran Bera; Dr. Pinaki Pratim Acharjya	A System and Method for Real- Time Patient Monitoring and Analysis Using Wireless Sensor	22/08/2024	30/08/2024
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55	459524-001	Dr. Subir Gupta; Ms Joyita Ghosh; Mr. Somdeb Mondal; Dr. Shefali Varshney; Mrs. Upasana Adhikari; Mr. Dipankar Roy; Mr. Soumojit Roy; Mr. Bidisha Maiti; Mr. Sougata Sikdar; Mrs. Pinky Pramanik; Subhabrata Barman ; Dr. K. Indhumathi	IoT-Driven Wearable Solution For Gang Safety And Protection	20/05/2025	
56	202431062859	Dr. Moumita Das; Dr. Subhankar Joardar ; Dr. Jayeeta Majumder; Subhabrata Barman; Jayashri Deb Sinha; Dr. Mihir Baran Bera; Dr. Pinaki Pratim Acharjya	A System and Method for Real-Time Patient Monitoring and Analysis Using Wireless Sensor Networks	22/08/2024	30/08/2024
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60	202431063259 A	Dr. Santanu Koley; Jayasri Deb Sinha; Dr. Raja Rawat; Dr. Mrinmoy Sen; Dr. Deep Suman Dev; Sunanda Jana ; Dr. Dipankar Dutta; Aratrika Banerjee; Mamani Bandyopadhyay; Hidam Rameswar Sing	A Decentralized Cloud Storage System With Blockchain and Quantum Resistant Encryption for Enhanced Data Security	21/08/2024	30/08/2024
61	6431510	Dr. Santanu Koley, Dr. Mrinmoy Sen, Sunanda Jana , Dr. Vijaya Choudhary , Dr. Chiranjib Chakravartty, Dr. Poruran Sivakumar, Dr. Arpita Das, Dr. Sk	Sleek Artificial Intelligence Computing USB Stick		04/04/2025

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67	435994-001	Dr. Santanu Koley ; Mrs. Rajrupa Metia; Mrs. Debrupa Metia; Mrs. Razia Sultana	Machine Learning-Enabled Network Security Device With Adaptive Threat Detection	29/10/2024	
68	6421619	Dr. Santanu Koley , Umesh Pal, Dr. Surekha lanka, Dr. Parijat Bhowmick, Dr. Sutapa Chatterjee Sarkar, Dr. Abhishek Roy, Dr. Deepa Naik, Janardhan Reddy Timmareddy, Dr. Atanu Nag, Debika Chaudhuri.	Interactive Multi-way Touchscreen Table for Classroom Learning		10/02/2025
69	202331074573	Dr. Pinaki Pratim Acharjya; Dr. Santanu Koley ; Dr. Moumita Das; Patrali Pradhan, Dr. Jayeeta Majumder; Dr. Mihir Baran Bera; Tahamina Yesmin; Umesh Pal;	AN OPTIMAL MATHEMATICAL MORPHOLOGY AND K-MEAN CLUSTERS BASED METHOD FOR SEGMENTING	02/11/2023	01/12/2023

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74	202531004726 A	Dr. Pinaki Pratim Acharjya; S K Hojayfa Rahaman; Mahuya Sasmal; Dr. Moumita Das; Rajrupa Metia; Dr. Sumanta Kuila; Sougata Sikder; Tapas Saha ; Ramsundar Ghorai	An Enhanced Image Segmentation Method Using Watershed Transform In a Grid Computing Environment	21/01/2025	31/01/2025
75	202531004722 A	Dr. Pinaki Pratim Acharjya; Susanta Banerjee; Arpita Shome; Aratrika Banerjee; Sudip Mishra; Dr. Manoj Kumar Mondal; Dr. Biplab Sinha Mahapatra; Umesh Pal ; Dr. Mihir Baran Bera	A Hybrid Method for Edge Detection In Image Processing Systems Using Gradient And Laplacian Operators	21/01/2025	31/01/2025
76	6421619	Dr. Santanu Koley, Umesh Pal , Dr. Surekha lanka, Dr. Parijat Bhowmick, Dr. Sutapa Chatterjee Sarkar, Dr. Abhishek Roy, Dr. Deepa Naik, Janardhan Reddy Timmareddy, Dr. Atanu Nag, Debika Chaudhuri.	Interactive Multi-way Touchscreen Table for Classroom Learning		10/02/2025
77	202331074573	Dr. Pinaki Pratim Acharjya; Dr. Santanu Koley; Dr. Moumita Das; Patrali Pradhan, Dr. Jayeeta Majumder; Dr. Mihir Baran Bera; Tahamina Yesmin; Umesh Pal ;	AN OPTIMAL MATHEMATICAL MORPHOLOGY AND K-MEAN CLUSTERS BASED METHOD FOR SEGMENTING	02/11/2023	01/12/2023