

<b>Sr. No.</b>	<b>Title of IPR</b>	<b>Patent/Design/Copy Right number with year of grant/file</b>	<b>Inventor/ Inventors</b>
1	“A Method to Reconstruct The Single Square Wave Pulse at the Receiving End Through the Lossy, Unmatched and Noisy Transmission Channel”	USPS Number: 7015 0640 0001 3896 6158, US Provisional Patent (USPTO), filed on 29th June 2015, Maricopa, Arizona, USA. (Status: Published)	B.K. Bhattacharyya, <b>A. Majumder</b> , M. Kumari, D. Baral,
2	“A Digital Card Serving Identity & Payment Needs”,	Indian Patent Filed on 10th February 2016; Application No – 201631004666. (Status: Published)	<b>A. Majumder</b> , S. Ghosh, J. Goswami, B.K. Bhattacharyya,
3	“Motion Based Charger for a Portable Computing Device”	Indian Patent Filed on 3rd February 2017; Application No – 201731003981. (Status: Published)	<b>A. Majumder</b> , A. Kumar, N. Mishra, A. Anand,
4	“Voltage Keeper Based Robust Flip-flop for Low Power Applications”	Indian Patent Filed on 11th December 2017, Application No – 201731044358. (Status: Published)	<b>A. Majumder</b> , P. Bhattacharjee, B. Nath,
5	“System and Method for Vehicle Identification and Ticketing System”	Indian Patent Filed on 5th September 2018, Application No – 201831033415. (Status: Published)	A. Kumar, N. Mishra, <b>A. Majumder</b> ,
6	“System and Method for Enhancing Vehicle Security Through Driving License Verification”	Indian Patent Filed on 2nd November 2018, Application No – 201831041534. (Status: Published)	A. Kumar, S. Katiyar, <b>A. Majumder</b>
7	“Liver cancer diagnosis using meta-classifiers based on BUPA liver disorder dataset”	Indian Patent application number - 201811035978 Date of filing – 25/09/2018 PUBLICATION DATE :27/03/2020	MANISH TIWARI , TULIKA CHAKRABARTI , MAYANK SHARMA , <b>ACHYUTH SARKAR</b> , SHILADITYA PUJARI , PRASUN CHAKRABARTI , K BABA PAI
8	“ Testing time, detection rate and accuracy estimation in context to Network Intrusion Detection in Spark’s Mllib environment”	Indian Patent application number- 201811025476 Date of filing – 09/07/2018	PRADEEP LAXKAR , PRASUN CHAKRABARTI , <b>ACHRUTH SARKAR</b>

		PUBLICATION DATE :10/01/2020	
9	“Novel facts related to mobile IP and packet combining schemes”	Indian Patent application number-201811021728 Date of filing – 11/06/2018 PUBLICATION DATE :13/07/2018	DR. AMRIT GHOSH <b>ACHRUTH SARKAR</b> , PRASUN CHAKRABARTI , PROF. C.T. BHUNIA
10	“Novel facts based on classifier algorithms towards achieving optimum accuracy in liver cancer diagnosis, precision and recall”	Indian Patent application number-201811006523 Date of filing – 21/02/2018 ; Publication Date - 27/04/2018	MANISH TIWARI , TULIKA CHAKRABARTI , PRASUN CHAKRABARTI , KUNTAL BARUA , <b>ACHYUTH SARKAR</b>
11	“Novel facts related to Key for Key Selection (KKS) and Selective Cryptosystems”	Indian Patent application number-201811002670 Date of filing – 23/01/2018; Publication Date - 06/04/2018	DR. RPASUN CHAKRABARTI , <b>ACHYUTH SARKAR</b> , ROHAN MAJUMDER
12	“Novel method For Prevention of Security Attack on Cloud Medical Data Using Artificial Intelligence and IOT”	Indian Patent application Number:202011005608 Date of Publication-09.02.2020 PUBLICATION DATE :21/02/2020	Dr.Manu Sharma , Sudhanshu Joshi , Dr.Jayant Gautam , <b>Dr.Achyuth Sarkar</b> , Dr.S.Balamurugan , Mr.V.M.Prabhakaran
13	“Method for Monitoring Person for Detection of Possibility of Corona Infection”	Indian Patent application Number: 202031016741 Date of Publication-18.04.2020 PUBLICATION DATE :15/05/2020	<b>Dr. Achyuth Sarkar</b> , Prof. (Dr.) Bhagirathi Nayak , Mr. Udit Mamodiya , Dr. Dinesh Goyal , Dr. V. Dhinakaran , Mrs. Priyanka Sharma , Dr. Ajay B Gadicha , Dr. Savita S G , Amit Yadav
14	“Method for Diagnose Medical Problem through Medical Image Processing Using Big Data and Machine Learning”	Indian Patent application Number : 202031019607 Date of Publication-08.05.2020 PUBLICATION DATE :12/06/2020	<b>Dr. Achyuth Sarkar</b> , Dr. E Laxmi Lydia , Dr. Raju Dindigala , V.Sridhar , Dr.I.Sivakumar , Dr. Krishna Prasad K , Udit Mamodiya , Dr. A. Jayanthiladevi , Dr. T.P Latchoumi

15	“ IOT Based Smart Food Transport System with Climate Control Container”	Indian Patent application Number: 202011020443 Date of Publication- 26.06.2020 PUBLICATION DATE :26/06/2020	Dr. Aditi Sharma , Mr. S.PALANIYAPPAN , Mr. J. Thimmia Raja , <b>Dr. Achyuth Sarkar</b> , Dr.K.Sathesh Kumar , Dr. C. Kirubakaran , Mr. K.S.GOWTHAMAN
16	“ELECTROCHEMICAL SENSOR BASED SYSTEM ADAPTED FOR IMMUNO RESPONSE”	Indian Patent application No. 202031005545 dated 07.02.2020	<b>Dr. Saikat Kumar Jana &amp; Thangapnadi K</b>
17	A COST EFFECTIVE SYSTEM FOR DRIVER DROWSINESS DETECTION	Indian Patent application No. 202041005075, PUBLICATION DATE : 21/02/2020	Dr. Argha SARKAR, , <b>Dr. Debjit DUTTA</b>
18	A CUTTING TOOL BASED MACHINING SYSTEM FOR AUTOMATED SUBMERGED PRESSURIZED COOLANT MACHINING	Indian Patent Application No. 201821025194, PUBLICATION DATE :20/07/2018	Abhisek SARKAR, <b>Dr. Debjit DUTTA</b> , Abhimanyu
19	A PROCESS FOR ISOLATION OF FLAVONOID COMPOUND / “RUTIN” FROM PLANT SPILANTHES PANICULATA	Indian Patent Application No. 201731033794, PUBLICATION DATE :10/11/2017	Dr. Hui Tag, <b>Dr. Pallabi Kalita Hui. Dr. Debjit Dutta</b> . Mr. Vajravijayan Senthil Vadivel, Dr. Gunasekaran Krishnaswamy
20	DEVELOPMENT OF A SOLAR POWERED ECONOMIC AND ENVIRONMENTAL FRIENDLY E-BANNER: AN EXCLUSIVE SUSTAINABLE GREEN APPROACH	Indian Application ref. no. 202041043065Patent filed on 03.10.2020,	<b>Dr. Debjit DUTTA et. al.</b>
21	GEOGRAPHICAL DATA VISUALIZATION AND DIMENSION REDUCTION BY UNSUPERVISED LOCALLY LINEAR EMBEDDING (LLE) LEARNING ALGORITHM	Australia Application Ref no. 2020102383 Patent filed on 23-09-2020	Dumka, Ankur ; Kumar, Vivek ; Ashok, Alaknanda ; Kumar, Naresh ; <b>Sarkar, Achyuth</b> ; Sharma, Aditi ; Saravanan, D. ; Khandelwal, Amit ; Pant, Vinay Kumar
22	TECHNIQUE FOR MULTILAYER PROTECTION FROM QUANTIFIABLE VULNERABILITIES IN INDUSTRIAL CYBER PHYSICAL SYSTEM	Australia Application Ref no. 2020102142 Patent filed on 04-09-2020	Sharma, Aditi ; <b>Sarkar, Achyuth</b> ; Mewada, Shivlal ; Choudhary, Arjun ; Singh, Yudhvir ; Acharya, Biswaranjan ; Ganguli, Souvik ; Karella, Nirav ; Pradhan,

			Arjadhara ; Panda, Babita ; Cengiz, Korhan ; Goar, Vishal Kumar
23	DYANAMIC DEFENCE MECHANISM AGAINST PINNED ATTACKS OF MASTER NODES IN WIRELESS SENSOR NETWORKS	Australia Application Ref no. 2020101390 Patent filed on 16-07-2020	Sharma, Aditi ; Pandey, Sachi ; <b>Sarkar, Achyuth</b> ; Chouhan, Vikas ; Mangla, Monika ; Sharma, Nonita ; Mehta, Vaishali ; Mittal, Poonam ; Dumka, Ankur ; R. Dudhagara, Chetan ; Mewada, Shivrul