



**VARDHAMAN COLLEGE OF ENGINEERING
(AUTONOMOUS)**

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Kacharam, Shamshabad, Hyderabad – 501218, Telangana, India

CSE (AI & ML)

List of patents filed/published/granted

Academic Year 2021-2022

#	Title of the Invention	Name of the Faculty	Patent Number	Application Date	Publication Date	Filed/ Published /Grant
1.	The Role of the Internet of things on the Relationship between Job Balance and Employee Productivity in the IT Industry	1 . Mr. Bhawani Sankar Panigrahi 2 . Mrs. B. Vasavi 3 . Dr. R Karthikeyan 4 . Dr. Jagadish R M 5 . Mr. Rama Chandra Rao Meka 6 . Mr. Bijaya Kumar Sethi 7 . Dr. Prakash Kumar Sarangi 8 . Mrs. Polisetty Swetha 9 . Ms. Aishwarya Koukuntla	20224103217 9	06.06.2022	10.06.2022	Published

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Academic Year 2022-2023

#	Title of the Invention	Name of the Faculty	Patent Number	Application Date	Publication Date	Filed/ Published /Grant
1.	Securing Classified Documents Using Blockchain and Open Source	1. Rahul Morathoti 2. Bhuvana Gudelli 3. Sudeep Banerjee Chopra 4. M.A.Jabbar	20224103 7608	30-06-2022	08-07-2022	Published
2.	An Adaptive Multi-Objective Machine Learning Framework for Edge Computing Based on a Multiple Gradient Decent Design	1 . Dr. Sarat Chandra Nayak 2 . Dr. Prakash Kumar Sarangi 3 . Dr. Sanjib Kumar Nayak 4 . Dr. Sohan Kumar Pande 5 . Ms. Slokashree Padhi 6 . Dr. Sanjaya Kumar Panda 7 . DAKSHYA PRASAD PATI	20224107 0444	06.12.2022	09.12.2022	Published
3.	THE SMART NON-INVASIVE VENTILATION SYSTEM FOR ACUTE RESPIRATORY DISTRESS SYNDROME	1. K. Murugaperumal 2. N. Karuppiah 3. B. Praveen Kumar 4. Md. Asif S.Ravivarman 6. R. Karthikeyan	20224103 5989	23-06-2022	01-07-2022	Published

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#	Title of the Invention	Name of the Faculty	Patent Number	Application Date	Publication Date	Filed/ Published /Grant
1.	DRIVER DROWSINESS DETECTING DEVICE BASED ON AI	1. Dr. Palla Pavankumar 2.Dr. Sajja Suneel 3.Talasila Ram Kumar 4.Dr. Avula Satya Sai Kumar 5.Appireddy Venkata Nagireddy 6.Thakur Charan Singh 7.Dr. Kathi Venkataramana 8.Nakka Maisaiah	6302918	11.08.2023	22-Aug-23	Granted
2.	INTERNET OF THINGS(IOT) BASED SMART HEALTHY MONITORING SYSTEM WITH LONG RANGE (LORA) WIRELESS NETWORK	1 . Bhawani Sankar Panigrahi 2 . Vanam Lokesh Reddy 3 . Bejjenki Aakash 4 . Anurag Kanamaluru 5 . Satyabrata Dash 6 . Polisetty Swetha 7 . V.Lokeshwari Vinya 8 . Gajula Shashank 9 . Swati Sucharita 10 . Susanta Kumar sahu	202341055706	20/8/23	01-09-23	Published
3.	Smart foldable table	1. Chitkara University (Punjab) 2. Chitkara Innovation Incubator Foundation 3. Srikanta Kumar Mohapatra 4. Abhineet Anand 5. Premananda Sahu 6. Prakash Kumar Sarangi 7. Hemanta Kumar Bhuyan 8. Rajat 9. Ruchi Kawtra 10. Vikas	362754-001	19-04-2022	05-01-2024	Granted

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		Lamba11. Vikas Solanki12. Kamal Saluja				
4.	DIAGNOSING AND EVALUATING ORTHOPEDIC PATHOLOGIES VIA IMAGING METHODS: A SYSTEMATIC REVIEW AND META-ANALYSIS	Vardhaman College Of Engineering Kacharam, Shamshabad – 501218 Hyderabad, Telangana, India	202341072707	25-10-2023	08-03-2024	Published
5.	DEEP REINFORCEMENT LEARNING FRAMEWORK FOR AUTONOMOUS NAVIGATION IN UNSTRUCTURED ENVIRONMENTS	1 . Mr. Sudersan Behera 2 . Mrs. L Swathi 3 . Mr. Gollanapalli V Prasad 4 . Mr. P M Suresh 5 . Mrs. K Lakshmi Kalpana 6 . Mrs. Sanghamitra Panda 7 . Mr. Anbarasu Rajabathar 8 . Dr. Prakash Kumar Sarangi 9 . Mrs. H Shalma	202441032263	24-04-2024	26-04-2024	Published
6.	BLOCKCHAIN-BASED DECENTRALIZED AUTHENTICATION AND AUTHORIZATION SYSTEM FOR SECURE TRANSACTIONS	1 . Mr. Sudersan Behera 2 . Mr. Aythepally Lakshmi Narayana 3 . Dr. Prakash Kumar Sarangi 4 . Mrs. Edikoju Shirisha 5 . Mr. P M Suresh 6 . Mr. Ayaz Mohiuddin 7 . Mrs. Nibedita Sahoo 8 . Mr. G Kadirvelu 9 . Mrs. Vanaparathi Kiranmai	202441016214	07-03-2024	22-03-2024	Published
7.	DEEP LEARNING AND MACHINE LEARNING INTEGRATION	1. Sharanya Tirunagari , 2. Raghavendra Gowda D, 3. Ravi Teja Gedela, 4. Chithirala Bala Subramanyam, 5. M	202441020960	20-03-2024	03-29-2024	Published

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	FOR OBJECT RECOGNITION	Radhika, 6. Bommidi Janakiram Venkata Varma, 7. Abhishek Dixit, 8. Venkatesh Kavididevi, 9. Sumaiya Shaikh, 10. Shaista Farhat				
8.	Biometric Authentication Device	1. Susanta Kumar Sahoo, 2. Jagadish Ramthirth Math, 3. Sanjuktarani Jena 4. Abhishek Dixit 5. Nirmal Keshari Swain, 6. Mohammed Musab Haqqani, 7. Vazzula Manish 8. Kumavat Prakash 9. Tuhina Panda, 10. Sonali Das	6345939	09-02-2024	03-05-2024	Published
9.	ARTIFICIAL INTELLIGENCE-ASSISTED DIAGNOSTIC IMAGING SYSTEM FOR EARLY DISEASE DETECTION	1 . Nukala Sujata Gupta 2 . Susanta Kumar Sahoo 3 . Sanjay Kumar Sen 4 . Kaberi Das 5 . Dr. Ramakrishna Goddu 6 . Depalle Sandhya Rani 7 . Sanjuktarani Jena 8 . Koti Tejasvi 9 . Jhum Swain 10 . Pallavi Shastrula	202441004180	20/01/2024	09-02-2024	Published
10	SMART MEDICAL DIAGNOSIS SYSTEM USING IOT DRIVEN MACHINE LEARNING AND BIG DATA ANALYTICS	1 . Dr.B.Santhosh Kumar, Guru Nanak Institute of Technology 2 . Ms. Hameetha Begum, Muscat College 3 . Mr. Shashi Kant Mishra, Guru Nanak Institute of Technology 4 . Mr.G V Chiranjeevi Adari, Guru Nanak Institute of Technology 5 . Mr. Akurathi Lakshmi pathi Rao, Guru Nanak Institute of Technology 6 . Dr.Vijayaganth V,	202441015018	29/02/2024	15/03/2024	Published

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		KPR Institute of Engineering and Technology 7 . Dr. Ramachandro Majji, Vardhaman College of Engineering 8 . Mr. Vinay Kumar Enugala, Guru Nanak Institute of Technology 9 . Dr.Prakash D, Mohamed Sathak A. J. College of Engineering 10 . Dr.Satish Muppidi, GMR Institute of Technology				
11	UTILIZATION OF DRONES AND MACHINE VISION FOR AUTOMATED INSPECTION OF ROADS AND BRIDGES	1 . Nirmal Keshari Swain 2 . Yugandhar Manchala 3 . B K Madhavi 4 . V Mohan 5 . Susanta Kumar Sahoo 6 . Sanjay Kumar Sen 7 . Gireesh Agarwal 8 . Sanjuktarani Jena 9 . Swati Sucharita 10 . Bhawani Sankar Panigrahi	202441003188	16/01/2024	09-02-2024	Published
12	Deep learning and AI for enhanced image and video analysis	1.Venkatesh Kavididevi 2. Ravi Teja Gedela 3. K Divya Reddy 4. Tanusree Dutta 5. . Kumavat Prakash 6. Kiran Babu Kommu 7. Vanma Pavan Kumar 8. Madda Varalakshmi 9. Velamala Yamuna 10. Tuhina Panda	202441009106	10/02/2024	08-03-2024	Published

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#	Title of the Invention	Name of the Faculty	Patent Number	Applica tion Date	Publicatio n Date	Filed/ Publishe d /Grant
1.	Novel Deep Learning based Intelligent Robust Early Sepsis Prediction Model.	Dr. Saroja Kumar Rout, Bachan Nayak Dr. Muni Sekher Velpuru Bibhuprasad Sahu Dr.Sujit Kumar Panda Dr. Pradyumna Kumar Mohapatra Dr. H Venkateswara Reddy Kottu Santosh Kumar Anudeep Meda Nikhil Kathirasetty	2022410419 12	21/07/2022	09-07-2024	Granted
2.	MULTI-AGENT REINFORCEMENT LEARNING FRAMEWORK FOR TRAFFIC MANAGEMENT IN SMART CITIES	1. Mr. Bijaya Kumar Sethi 2. Mr. Rama Chandra Rao M 3. Dr. Saroja Kumar Rout 4. Dr. R. Karthikeyan 5. Mrs. Swati Sucharita 6. Mr. Shyam Sunder Mourya 7. Mr.Alakuntla Raja Shekar 8. Mr.Majjari Sudhakar 9. Mr.Alakuntla Sai Madhav Raj 10. Dr. Prakash Kumar Sarangi	2024410584 98	01-08-2024	09-08-2024	Published
3.	5G-Enabled AI-Based Network Traffic Optimization for Seamless IoT Connectivity	1 . Swati Sucharita 2 . R. Bhavani 3 . Vijaylaxmi Bhure 4 . Shaista Farhat 5 . S. Uma Maheswari 6 . D. Sandhya Rani 7 . Dr. R. Karthikeyan 8 . Majjari Sudhakar 9 . Mr. Allamaprabhu 10 . Dr. Prakash Kumar Sarangi	2025410276 16	25.03.2025	25.04.2025	Published
4.	AI Virtual Assistant For Linux	1 . Dr. Saroja Kumar Rout 2 . Mr. Abhishek Majhi	2024410569 38	26/07/2024	02/08/2024	Published

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	Operating System	3 . Mr. Bijaya Kumar Sethi 4 . Dr. Suryanarayan 5 . Dr. Prakash Kumar Sarangi 6 . Mr. G Stalin Babu 7 . Mr. E Ravi Kumar 8 . Dr. Nilamadhab Mishra 9 . Mr. S. Eswar Reddy 10 . Mr. S. Ranjith Reddy				
5.	An Improved Cryptosystem for Secure Image Sharing for Application of IoT Device Communication	1 . Mr. Shyam Sunder Mourya 2 . Mr. Ankul Singh 3 . Ms. Swati 4 . Ms. R. Bhavani 5 . Ms. Vijaylaxmi Bhure 6 . Mr. Alakuntla Sai Madhav Raj 7 . Mr. Alakuntla Rajashekar 8 . Ms. Chinta Anusha	202541027038	24/03/2025	11/04/2025	
6	A Transfer Learning Based Approach For Rotating machinery Augmented Synthetic Data On Fault Diagnosis using Explainable AI	1 . Susanta Kumar Sahoo 2 . Kothapalli Lavanya 3 . Chinnakamanam Ranjith Kumar 4 . Dr. Biswajit Brahma 5 . Dr. Prajna Paramita Pradhan 6 . Andugulapati Subrahmanya Guru Raghavendra Rao 7 . K. Renuka 8 . Murry Swathi 9 . S. Uma Maheswari 10 Swati Sucharita	202531056831	13/06/2025	20/06/2025	Published
7	A Systematic Approach On Deep Transfer Learning Models for Industrial Fault Diagnosis Using Vibration	1 . Jhum Swain 2 . Susanta Kumar Sahoo 3 . Dr. Soujanya Duvvi 4 . Dr. Gorli L Aruna Kumari 5 . Dr. Biswajit Brahma 6 . Ranajit Senko 7 . Madda Varalakshmi 8 . Swati Sucharita 9 . S. Uma Maheswari 10 . Chava Kethan	202541027003	24/03/2025	11/04/2025	Published

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	Andacoustic Sensors Data					
8	Stock Price Prediction and Performance Analysis of Indian Banks Using Machine Learning Techniques	1 . Mrs. Palagati Anusha 2 . Mr. Mavunuri Ajaykumar 3 . Ms.S. Priyadarshini 4 . Mr. Ramachandro Majji 5 . Mr. S Prabhaker	202541028835	26/03/2025	25/04/2025	Published

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