

**A. List of quality publications in refereed / SCI Journals, citations, Books/Book Chapters etc. (6) TOTAL-64**

**Academic Year 2022-2023 (PAPERS- 33)**

Sl. No.	Name of Faculty	Publication Details
1	Dr. Dushyantsinh B. Rathod (13)	<p><b>Dr. Dushyantsinh B. Rathod</b>, Yesha Patel, Archana Jethava, Namrata Gohel, Dhruvi Suthar, “Monitor The Effectiveness Of Cardiovascular Disease Illness Diagnostics Utilizing AI And Supervised Machine Learning Classifiers”, Smart Innovation, Systems And Technologies, Vol. 361, 2023, Scopus Indexed.</p> <p>Mr. Darshan Poonambhai Patel , <b>Dr. Dushyantsinh B. Rathod</b>, A Comparative Review Of Liver Disease Prediction Using Machine Algorithm, Journal Of Data Acquisition And Processing, Vol. 38 (1) 2023, UGC Approved, Scopus Indexed.</p> <p>Panchal Mital Nikunj, <b>Dr. Dushyantsinh B. Rathod</b>, EFFICIENT N-GRAM BASED FUZZY KEYWORD SEARCHOVER ENCRYPTED DATA IN CLOUD, Journal Of Data Acquisition And Processing, Vol. 38 (1) Jan-2023, UGC Approved, Scopus Indexed</p> <p>Mr. Hardik J. Prajapati, <b>Dr. Dushyantsinh B. Rathod</b>, Heart Disease Risk Identification And Prediction Using Ensemble Adaboost Supervised Machine Learning Classifier, Journal Of Data Acquisition And Processing, Vol. 38 (1) Jan 2023, UGC Approved, Scopus Indexed.</p> <p>Panchal Mital Nikunj, <b>Dr. Dushyantsinh B. Rathod</b>, A Novel Approach For Fuzzy Keyword Searchable Encryption Using N-Gram In Cryptographic Cloud Environment, Journal Of Data Acquisition And Processing, Vol. 38 (1) April-2023, UGC Approved, Scopus Indexed.</p> <p>Mr. Mohit Patel, <b>Dr. Dushyantsinh B. Rathod</b>, A Survey On Heart Disease Prediction Using Machine Learning Techniques, Journal Of Data Acquisition And Processing, Vol. 38 (1) 2023, UGC Approved, Scopus Indexed, Jan-2023</p> <p>Mr. Anandkumar A. Sutariya, <b>Dr. Dushyantsinh B. Rathod</b>,”CHRONIC KIDNEY DISEASE PREDICTION AND DIAGNOSIS USING DIFFERENT MACHINE LEARNING ALGORITHMS”, Journal of data acquisition and processing, ISSN: 1004-9037, Vol. 38 (1), Scopus Indexed, Jan-2023.</p>

		<p>Mr. Hardik J. Prajapati, <b>Dr. Dushyantsinh B. Rathod</b>, CARDIOVASCULAR DISEASE DETECTION USING SUPERVISED DECISION TREE CLASSIFIER ,Journal Of Data Acquisition And Processing, Vol. 38 (1) April 2023, UGC Approved, Scopus Indexed.</p> <p>Mr. Anandkumar A. Sutariya, <b>Dr. Dushyantsinh B. Rathod</b>, "EFFECTIVE DETECTION OF CHRONIC KIDNEY DISEASE USING MACHINE LEARNING TECHNIQUES ",Journal of data acquisition and processing,ISSN: 1004-9037,Vol. 38 (1),Scopus Indexed, May-2023.</p> <p>Mr. Darshan Poonambhai Patel, <b>Dr. Dushyantsinh B. Rathod</b>,Chronic Liver Diseases and Stage Detection Using Hybrid Machine Learning Model, Journal of Harbin Engineering University, ISSN: 1006-7043, Vol 44 No. 8, Scopus Indexed, August 2023.</p> <p>Mr. Mohit Patel, <b>Dr. Dushyantsinh B. Rathod</b>, Cp Based Heart Attack Detection Using Stacking Classifier, Journal of Harbin Engineering University, ISSN: 1006-7043, Vol 44 No. 8, Scopus Indexed,August 2023.</p> <p>Mr. Brijesh Vala, <b>Dr. Dushyantsinh Rathod</b>, A Review On Prediction Of Cardiovascular Disease Using Iot &amp; Machine Learning Techniques,Semiconductor Optoelectronics,Vol. 41 No. 11 (2022), UGC Approved, Scopus Indexed.</p> <p>Dr. Ajay N. Upadhyay,<b>Dr. Dushyantsinh B. Rathod</b>,Dr. Vijay Gadhvi,Dr.Ramesh T. Prajapati,Prof. Jashvantkumar R. Dave,"PAODV_RTPDR- A HYBRID APPROACH FOR BLACKHOLE ATTACK PREVENTION IN VANET",International Journal of Applied Engineering &amp; Technology ,ISSN: 2633-4828 Vol. 5 No.3, September, 2023</p>
2	Dr Ajay Upadhyay(1)	<p><b>Dr. Ajay N. Upadhyay</b>,Dr. Dushyantsinh B. Rathod,Dr. Vijay Gadhvi,Dr.Ramesh T. Prajapati,Prof. Jashvantkumar R. Dave,"PAODV_RTPDR- A HYBRID APPROACH FOR BLACKHOLE ATTACK PREVENTION IN VANET",International Journal of Applied Engineering &amp; Technology ,ISSN: 2633-4828 Vol. 5 No.3, September, 2023</p>
3	Dr. Mohit Bhadla (4)	<p><b>Dr. Mohit Bhadla</b> ,"ZigBee Technology Based Monitoring and Control System for Wireless Sensor Network",IET Communication,2022</p>

		<p><b>Dr.Mohit Bhadla</b>,"Deep Learning Model for Recommendation system through Knowledge Graph Mining over Web of things", ID COM-2022-11-0411,2022</p> <p><b>Dr.Mohit Bhadla</b>," Deep Learning based social network Dynamic user alignment", ACM publication,2022</p> <p><b>Dr.Mohit Bhadla</b>,Pavan Patel,Jinal Upadhyay,Dhruvi Suthar,Drashti Darji,Predictive COVID-19 Risk and Virus Mutation isolation with CNN based Machine Learning Technique,International Conference on Innovative Practices in Technology and Management,IEEE,2022</p> <p>Nonlinear Network Speech Recognition structure in Deep Learning Algorithm,Computational Intelligence and Neuroscience,Volume 2022</p>
4	Dr. Ramesh Prajapati(1)	Dr. Ajay N. Upadhyay,Dr. Dushyantsinh B. Rathod,Dr. Vijay Gadhvi, <b>Dr.Ramesh T. Prajapati</b> ,Prof. Jashvantkumar R. Dave,"PAODV RTPDR- A HYBRID APPROACH FOR BLACKHOLE ATTACK PREVENTION IN VANET",International Journal of Applied Engineering & Technology ,ISSN: 2633-4828 Vol. 5 No.3, September, 2023
5	Dr. Vijaykumar Gadhavi(1)	Dr. Ajay N. Upadhyay,Dr. Dushyantsinh B. Rathod, <b>Dr. Vijay Gadhvi</b> ,Dr.Ramesh T. Prajapati,Prof. Jashvantkumar R. Dave,"PAODV RTPDR- A HYBRID APPROACH FOR BLACKHOLE ATTACK PREVENTION IN VANET",International Journal of Applied Engineering & Technology ,ISSN: 2633-4828 Vol. 5 No.3, September, 2023
6	Leena Patel (2)	<p>Dr Sweety Maniar, <b>Dr Leena Patel</b>, Content Based Image Retrieval(MCBIR) using Feed Forward Neural Network International Journal for Research in Engineering Application &amp; Management (IJREAM), UGC Approved SCOPUS Indexed, ISSN : 2454-9150 Vol-08, Issue-01, APR 2022</p> <p><b>Dr Leena Patel</b>, Dr Avani Dave,"AI based Sustainable Electricity Generation (AI-SEG)", Global Research Journal GRJ-2023 Global Research Conference GRC-2023</p>
7	Sweety Patel(2)	<p><b>Sweety Patel</b> ,Dr. Amit Lathigar,"MediaPipe: Yoga Pose Detection Using Deep Learning Models",International Conference on Science, Engineering and Technology (ICSET 2022),  ISBN: 978-81-959326-0-3,2022</p> <p><b>Sweety Patel</b>,Amit Lathigara,"A survey on real time yoga pose detection using deep learning models,"AIP Conference Proceedings , AIP Conf. Proc.</p>

		2963,2023
8	Archana Jethava(1)	Dr. Dushyantsinh B. Rathod, Yesha Patel, <b>Archana Jethava</b> , Namrata Gohel, Dhruvi Suthar, Monitor the Effectiveness of Cardiovascular Disease Illness Diagnostics Utilizing AI and Supervised Machine Learning Classifiers, Smart Innovation Systems and Technologies, Vol. 361 2023 SCOPUS indexed.
9	Darshan P. Patel(2)	<b>Mr. Darshan Poonambhai Patel</b> , Dr. Dushyantsinh B. Rathod, A Comparative Review Of Liver Disease Prediction Using Machine Algorithm, Journal Of Data Acquisition And Processing, Vol. 38 (1) 2023, UGC Approved, Scopus Indexed, Jan-2023  <b>Mr. Darshan Poonambhai Patel</b> , Dr. Dushyantsinh B. Rathod, Chronic Liver Diseases and Stage Detection Using Hybrid Machine Learning Model, Journal of Harbin Engineering University, ISSN: 1006-7043, Vol 44 No. 8, Scopus Indexed, August 2023.
10	Preksha Patel(1)	<b>Preksha Patel</b> , "Development Of Processing Algorithms For The Retrieval Of Snow/Ice Parameters From Sar Data", Springer CCIS, 2023
11	Anand A. Sutariya(2)	<b>Mr. Anandkumar A. Sutariya</b> , Dr. Dushyantsinh B. Rathod, "CHRONIC KIDNEY DISEASE PREDICTION AND DIAGNOSIS USING DIFFERENT MACHINE LEARNING ALGORITHMS", Journal of data acquisition and processing, ISSN: 1004-9037, Vol. 38 (1) Jan-2023  Mr. Anandkumar A. Sutariya, <b>Dr. Dushyantsinh B. Rathod</b> , "EFFECTIVE DETECTION OF CHRONIC KIDNEY DISEASE USING MACHINE LEARNING TECHNIQUES", Journal of data acquisition and processing, ISSN: 1004-9037, Vol. 38 (1), Scopus Indexed, May-2023.
12	Mohit M. Patel(2)	<b>Mr. Mohit Patel</b> , Dr. Dushyantsinh B. Rathod, A Survey On Heart Disease Prediction Using Machine Learning Techniques, Journal Of Data Acquisition And Processing, Vol. 38 (1) 2023, UGC Approved, Scopus Indexed, Jan-2023.  <b>Mr. Mohit Patel</b> , Dr. Dushyantsinh B. Rathod, Cp Based Heart Attack Detection Using Stacking Classifier, Journal of Harbin Engineering University, ISSN: 1006-7043, Vol 44 No. 8, Scopus Indexed, August 2023.
13	Yesha Patel(1)	Dr. Dushyantsinh B. Rathod, <b>Yesha Patel</b> , Archana Jethava, Namrata Gohel, Dhruvi Suthar, Monitor the Effectiveness of Cardiovascular Disease Illness Diagnostics Utilizing AI and Supervised Machine Learning Classifiers, Smart Innovation, Systems and Technologies, Vol. 361 indexed. 2023 UGC Approved, SCOPUS

**Academic Year 2021-2022 (PAPERS-10)**

Sl. No.	Name of Faculty	Publication Details
1	Dr. Dushyantsinh B. Rathod(4)	<p>Krupa A.parmar,<b>Dr. Dushyantsinh B. Rathod</b>, Megha B. Nayak, Intrusion Detection System using Semi Supervised machine learning,Lecture Notes on Data Engineering and Communication Technologies,Springer -Scopus,ISSN:2367-4512,Jan 2021, UGC Approved, SCOPUS indexed.</p> <p>Kinjal Patani, <b>Dr. Dushyantsinh B. Rathod</b>, Advance 3-bit LSB based data hiding using steganography,Lecture Notes on Data Engineering and Communication Technologies,ISSN : 2367-4512, Springer-Scopus,Jan 2021, UGC Approved, SCOPUS indexed.</p> <p>Prapti Kachhia, <b>Dr. Dushyantsinh B. Rathod</b>,Kidney Disease Detection Using Data Mining Techniques.LNNS-SPRINGER,ISSN : 23673370,OCT 2021, UGC Approved, SCOPUS indexed.</p> <p>Mayank V Parekh, <b>Dr. Dushyantsinh B. Rathod</b>,"Breast Cancerous Tumor Detection using Supervised Machine Learning Techniques",SIST-SPRINGER SCOPUS,ISSN : 21903018,Dec-2021</p>
2	Dr. Mohit Bhadla(1)	<p><b>Dr. Mohit Kumar P. Bhadla</b> IMAGE COMPRESSION TECHNIQUE BASED ON FRACTIONAL COMPRESSION USING NEURAL NETWORKS International Journal of Innovative Science, Engineering and Technology Volume 8 Issue 11, November 2021.</p>
3	Dr. Jaimin H. Jani(4)	<p><b>Jani, Jaimin</b> , Dr. Desai, Subhashchandra (2021) “Convolutional Neural Networks for Facial Expression Recognition”, ISSN 2454-8596 , An International MultidisciplinaryJournal, Volume 06 - Issue 06 - 2021, UGC Approved.</p> <p><b>Jani, Jaimin</b> , Dr. Desai, Subhashchandra (2021) “A Study of Human Face Recognition using Deep Neural Network”, An International Refereed Journal of Multidisciplinary ResearchVol: 6, Issue: 8, 2021, UGC Approved.</p> <p><b>Jani, Jaimin</b> (2021) “A Study to Develop Human Face Recognition</p>

		Using PCA, Neural Networks and Wavelet " in International Conference on Recent Advances in Deep Learning (ICRADL- 2021), UGC Approved.  <b>Jani, Jaimin</b> (2021) "A Study on Various Human Facial Feature Extraction Techniques in High Dimensional Spaces", 2021, UGC Approved.
4	Mitisha Barot(1)	<b>Mitisha Barot</b> ,Prof. Barkha bhavsar,"Prior Stage Kidney Disease Prediction Using AI & Supervised Machine Learning Techniques",JETIR (UGC Approved),Impact factor 7.95,VOLUME 9   ISSUE 4  ,ISSN : 2349-5162(ONLINE),2022

#### Academic Year 2020-2021 (PAPERS-19)

Sl. No.	Name of Faculty	Publication Details
1	Dr. Dushyantsinh Rathod (6)	<p>Mr.Gadhavi B. Vijaykumar, (Dr.) Kalpesh H, <b>Dr. Dushyantsinh B. Rathod</b>, Reinforcing Cloud Execution using Stack Adjusting Strategy and Security Technique,Kala sarover Journal,vol-23,no.3,Dec 2020 UGC Care Group-1 Journal.</p> <p>Mr. Jainil K. Patel, <b>Dr. Dushyantsinh B. Rathod</b>, Mr. Vijaykumar B. Gadhavi, Efficiency of Virtual Machine Migration Techniques in Cloud Computing, Sambodhi Journal,Vol-43, No.3, Dec 2020, UGC Approved.</p> <p>Mr.Gadhavi Vijaykumar, (Dr). Kalpesh H Wandra, <b>Dr. Dushyantsinh B. Rathod</b> Improving the Performance of Cloud Using Load Balancing Algorithm and Security Mechanism, Studies in Indian place names,VOL-40,NO.9,March 2020, UGC Approved.</p> <p>Dhaval Varia, Dr. A. M. Kothari, <b>Dr. Dushyantsinh B. Rathod</b>,Architecture For Air Pollution Aware Vehicle Rerouting in Smart Cities Using Machine Learning &amp; Ant Colony Algorithm,STUDIES IN INDIAN PLACE NAMES,VOL-40,ISSUE NO.9,March 2020, UGC Approved.</p>

		<p>Nidhi Acharya, <b>Dr. Dushyantsinh B. Rathod</b>, Meet Patel Sentiment Analysis on Customer Reviews Using Machine Learning Algorithm and Negation Removal, Studies in Indian Place Names, Vol-40-Issue No.-9, March 2020, UGC Approved.</p> <p><b>Dr. Dushyantsinh B. Rathod</b>, Ramesh T. Prajapati, Harshil Joshi. "Subterranean Insect Based Data Reduction In Web Usage Mining Using K-implies Clustering", International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958 (Online), Volume-9 Issue-4, April 2020</p>
2	Dr Mohit Bhadla(1)	<b>Dr Mohit Bhadla</b> Image Compression Technique Based On Fractional Compression Using neural Networks
3	Dr. Ravirajsinh S. Vaghela(6)	<p>Hinddeep Purohit, <b>Ravirajsinh S. Vaghela</b> "A hybrid key management system based on ECC and data classification to secure data in the cloud" ICT4SD – 2020.</p> <p><b>Ravirajsinh S. Vaghela</b> ,Siddharth Joshi,"Regression Model Accuracy Measurement and Evolution for Sample Data for Hybrid Solar and Wind Power", TEST Engineering &amp; Management, VOL 82: JAN-FEB 2020.</p> <p><b>Ravirajsinh S. Vaghela</b>, Dr. Paresh Tanna,"Effectiveness of Think-pair-share Teaching based on Peer Review,"Mukt Shabd Journal,VOL 9,ISSUE 5, JUNE-2020,ISSN No: 2347-3150.</p> <p>Harsha asnani,ketna patel,<b>Ravirajsinh S. Vaghela</b>," Review Paper on Social Credit System ,"Juni Khyat , MaruBhumi Shodh Sansthan , VOL, ISSUE 5,JUNE 2020, ISSN No :2278-4632</p> <p>kuljeetsinh Jadeja,<b>Ravirajsinh Vaghela</b>,"Novel Approach Towards a Digital Cloth Alteration System for Branded Cloth Store,"International Journal of Psychosocial Rehabilitation , VOL 24 : FEB 2020,Special ISSUE, 1475-7192.</p> <p>Shripal shah,<b>Ravirajsinh Vaghela</b>,"Multi tier assessment of cloud service performance components with consideration of different parameters for various stack holders," Journal of the Maharaja Sayajirao University of Baroda", VOL-54, No-2(XIV) 2020.</p>
4	Dr. Ramesh Prajapati(2)	Shital Solanki, <b>Ramesh Prajapati</b> ,"Automated Classification using SVM and Back Propagation Learning Technique",International Journal of Innovative Technology and Exploring Engineering (IJITEE),ISSN: 2278-3075 (Online), Volume-9 Issue-6, April 2020

		Dr. Dushyantsinh B. Rathod, <b>Dr.Ramesh Prajapati</b> , Harshil Joshi.”Subterranean Insect Based Data Reduction In Web Usage Mining Using K-implies Clustering”,International Journal of Engineering and Advanced Technology (IJEAT),ISSN: 2249 – 8958 (Online), Volume-9 Issue-4, April 2020
5	Dr. Vijaykumar Gadhvi(3)	<p><b>Mr.Gadhavi B. Vijaykumar</b>, (Dr.) Kalpesh H, Dr. Dushyantsinh B. Rathod, Reinforcing Cloud Execution using Stack Adjusting Strategy and Security Technique,Kala sarover Journal,vol-23,no.3,Dec 2020 UGC Care Group-1 Journal.</p> <p><b>Mr.Gadhavi Vijaykumar</b>, (Dr). Kalpesh H Wandra, Dr. Dushyantsinh B. Rathod Improving the Performance of Cloud Using Load Balancing Algorithm and Security Mechanism, Studies in Indian place names,VOL-40,NO.9,March 2020, UGC Approved.</p> <p>Mr. Jainil K. Patel, Dr. Dushyantsinh B. Rathod, <b>Mr. Vijaykumar B. Gadhavi</b>, Efficiency of Virtual Machine Migration Techniques in Cloud Computing, Sambodhi Journal,Vol-43, No.3, Dec 2020, UGC Approved.</p>
6	Himani Prajapati(1)	<b>Himani J Prajapati</b> , Deepak Upadhyay, DETECTION AND MITIGATION OF GRAPHQL VULNERABILITY,international journal of research and analytical reviews ,volume 8,issue 2, UGC Approved.

### B.

Sl. No	Name of Faculty Member	Title of Book	Publisher
1	Yesha Patel, Mohit Bhadla	Intelligent Green Communication Network for Internet of Things (Chapter-8- Scalable and energy efficient intelligent schemes for Green IoT)	CRC Press ,Taylor & Francis Group -2023

### C. List of Books Published



**D. Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (4)**

<b>Name of Faculty As Research Guide</b>	<b>Name of The Scholar</b>	<b>Topic of The Research</b>	<b>University &amp; Year of Registration</b>	<b>Status</b>
Dr. Dushyantsinh B. Rathod	Joshi Harshil Vijaykumar	Security Enhancement Through Reduction In Ddos Attacks For Iot-Based Smart Cities	Gujarat Technological University-June 2018	Completed- Jan 2024
	Panchal Mital Nikunj	A Novel Privacy-Preserving Fuzzy Keyword Search For Encrypted Data In Cloud Computing	Sankalchand Patel University Jan - 2019	Completed- Jan 2024
	Vala Brijesh Rajnikant	Cardiovascular Diseases Diagnosis Using Iot And Machine Learning	Gujarat Technological University-June 2019	7 <sup>th</sup> DPC Completed
	Archana Narendrasinh Jethava	Bronchogenic Carcinoma disease Multi classification Using Deep Learning	Gujarat Technological University-June 2023	PhD Course Work and NPTEL Course going on
	Puja Chaturvedi	Skin Detection and Diagnosis using Supervised Deep Learning Techniques	Gujarat Technological University-June 2023	PhD Course Work and NPTEL Course going on
	Namrata Gohel	Brain Tumor Detection Multi class Identification using Deep Learning methods	Gujarat Technological University-June 2023	PhD Course Work and NPTEL Course going on

	Khushboo Thakkar	Early Stage Chronic Kidney Disease Disorder Multi-Class Classification Prediction Using Deep Learning Classifiers	Gujarat Technological University-June 2023	PhD Course Work and NPTEL Course going on
Dr. Ramesh Prajapati	Vaza Rahul Nrendrabhai	Development of Specialized Methodology for Virtual Machine Introspection Using Deep Learning	Gujarat Technological University June - 2017	Completed May-2023
	Solanki Shital A.	Design and Development of Support Vector Machine using Piecewise linear Approximation Based Optimization Techniques	Gujarat Technological University June - 2017	Completed March - 2024