

**BHARATI VIDYAPEETH DEEMED UNIVERSITY**

**COLLEGE OF ENGINEERING, PUNE**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Summary of Faculty Research Publication (2017-18 to 2021-22)**

Sr. No.	Academic Year	No. of Research Papers Published in		Total	No. of Research Papers listed in standard databases			Citations
		IJ	NJ		Scopus	Web of Science	Google Scholar	
1.	2017-18	18	-	17	6	3	17	22
2.	2018-19	20	-	19	4	2	18	24
3.	2019-20	12	-	07	5	2	10	14
4.	2020-21	13	-	08	5	2	11	10
5.	2021-22	07	-	07	4	1	07	5
<b>Total</b>		<b>70</b>	<b>-</b>	<b>70</b>	<b>24</b>	<b>10</b>	<b>63</b>	<b>75</b>

**Year 2017-18**

**International Journal**

<b>Sr. No.</b>	<b>Author (s)</b>	<b>Complete Title of the Article</b>	<b>Title of the Journal</b>	<b>Volume &amp; Issue Number</b>	<b>Page Nos.</b>	<b>Month and Year of Publication</b>	<b>ISSN</b>	<b>Impact Factor</b>	<b>List ed In Scop us</b>	<b>Liste d In Web of Scien ce</b>	<b>Liste d In Goog le Schol ar</b>
1.	Gajanan Bhole, Swati T. Harane, Milind Gayakwad,	Secure Search Over Encrypted Data Techniques: Survey	International Journal of Advanced Research in Computer Science	Volume 08, No. 07	pp:  575- 577	July 2017	ISSN: 0976- 5697	4.35	N	N	Y
2.	Menka K. Beldar, M.D. Gayakwad	Altruistic Content Voting System using Crowdsourcing	International Journal of Scientific Research and Review	Volume 07,  Issue 05	pp:  477-486	May 2018	ISSN:2 279- 543X	6.1	N	N	N
3.	Ankita A. Kushwah, Y. C. Kulkarni	A Survey on Mining Competitors From Large Unstructured Dataset Using K_Means Clustering Algorithm and Sentiment	International Journal of Future Reveolution in Computer Science & Communication Engineering	Volume 04, Issue 03	pp:  363-  366	March 2018	ISSN:2 454- 4248	4.35	N	N	N

		Analysis Approach									
4.	Sunitha S. Buchade, Prakash. R. Devale	A Study on Searchable Encryption Schemes	International Journal of Engineering and Technology	Volume 07, No. 02	pp: 617-620	April 2018	ISSN:227-524X	3.2	N	N	N
5.	Sunitha S. Buchade, Prakash. R. Devale	Dynamic & Fuzzy Searchable Encryption System	International Journal of Scientific Research and Review	Volume 07, Issue 05	pp: 395-400	May 2018	ISSN:279-543X	6.1	N	N	N
6.	Harshad H. Kale, Y. C. Kulkarni	Design and Implementation of App Store Optimization for An App Store	International Journal of Computer Sciences And Engineering	Volume 06, Issue 06	pp: 2347-2353	June 2018	ISSN:2347-2693	3.022	N	N	N
7.	Sonali R.Idate, Wazahat Khan, V.V. Narayana Reddy, Priyanka S. Paygude and Snehal D. Chaudhary	A Survey on Self Adaptive Systems Recent Development	International Journal of Computer Engineering and Applications	Volume 12, Issue 04		April 2018	ISSN:2321-3469	--	N	N	N
8.	Navya Jain, Priyanka S. Paygude and	Prediction of Jobs through Demography - An Application	International Journal for Research in Applied Science and Engineering Technology	Volume 06, Issue 04	pp: 118-120	April 2018	ISSN:2321-9653	2.36	N	N	N

	Snehal D. Chaudhary	to be used by AICTE									
9.	Rashika Abbi, Priyanka S. Paygude and Snehal D. Chaudhary	Implacing Securities Device in Cloud Network: Survey and Implementation	IOSR Journal of Engineering	Volume 10	pp: 87-90	May 2018	ISSN: 2250-3021	1.64	N	N	N
10.	Sarthak and Chandresh	Crime Report Portal	IOSR Journal of Engineering	Volume 11	pp: 10-12	May 2018	ISSN: 2250-3021	1.64	N	N	N
11.	Tanushree Garag, Priyanka Paygude and S. D. Chaudhary	Security Issues in Constrained Application Protocol: A Literature Survey	International Journal for Research in Engineering Application and Management	Volume 04, Issue 02	pp: 27-31	May 2018	ISSN: 2454-9150	5.64	N	N	N
12.	Akshita Jain , Sherif Arora, Yashashwita Shukla, T. B. Patil, S.T. Sawant-Patil	Proof of Stake with Casper the Friendly Gadget Protocol for Fair Validation Consensus in Ethereum.	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	Volume 03, Issue 03	pp: 291-298	March-April 2018	ISSN : 2456-3307	4.032	N	N	Y

13.	Yashashwita Shukla, Neena Sidhu, Akshita Jain, T.B. Patil, S.T. Sawant-Patil	Big Data Analytics Based Approach to Tax Evasion Detection.	International Journal of Engineering Research in Computer Science and Engineering	Volume 05, Issue 03	pp: 56-59	March 2018	ISSN:2394-2320.	4.890	N	N	N
14.	Neena Sidhu, Akshita Jain, Yashashwita Shukla, T.B. Patil, S.T. Sawant-Patil.	Automated Toll Collection Coupled with Anti-theft and Vehicle Document Verification System using RFID and Arduino Uno	International Journal of Computer Sciences and Engineering	Volume 06, Issue 04	pp: 261-266.	April 2018	ISSN: 2347-2693.	2.638	N	N	Y
15.	Kritika Shrivastava, Shweta Manda, P.S. Chavan, T.B. Patil, S.T. Sawant-Patil	Conceptual Model for Proficient Automated Attendance System based on Face Recognition and Gender Classification using Haar-Cascade, LBPH Algorithm	International Journal of Applied Engineering Research	Volume 13, No.10	pp: 8075-8080	2018	ISSN: 0973-4562.	2.3	N	N	Y

		along with LDA Model									
16.	Vatsalya, Sherif Arora, Akshita Jain, T.B.Patil, S.T. Sawant-Patil	Marine Hull Insurance Using Private Blockchain, Filecoin Protocol and Smart Contracts.	International Journal of Advance Research in Computer Science.	Volume 09, No. 03,	pp: 02-06	May-June 2018.	ISSN:0976-5697	3.727	N	N	Y
17.	Shweta Manda, Yashashwita Shukla, Kritika Shrivastava, T.B.Patil, S.T. Sawant-Patil.	A Literature Survey on Wireless Sensor Network in Home Automation Based on Internet of Things	International Journal of Computer Sciences and Engineering	Volume 06, Issue 05,	pp: 1362-1368.	April 2018	ISSN:2347-2693.	2.638	N	N	N
18.	Nakshatra Sain, Sagar Kapse, Malika Bindal , Surbhi, Prashant S. Chavan	Automatic Speech Recognition: - A Literature Survey	International Journal for Research in Applied Science & Engineering Technology	Volume 06, Issue 04,	pp: 3644-3645	April 2018	ISSN:2321-9653	6.887	N	N	N

## Academic Year 2018-19

### International Journal

Sr. No.	Author (s)	Complete Title of the Article	Title of the Journal	Volume & Issue Number	Page Nos.	Month and Year of Publication	ISSN	Impact Factor	Listed in Standard Databases (Y/N)		
									Scopus	Web of Science	Google Scholar
1.	Ashwini S. Gawade, S.M. Deshmukh	Implementation of Hand Gesture Tracking and Recognition System	International Journal of Research and Analytical Reviews	Volume 05, Issue 04	pp:81-85	December 2018	ISSN:2349-5138	5.75	N	N	N
2.	Jivago Mutunda Kumesa, P. R. Devale	Implementation of Classification of Geolocation of Country from Worldwide Tweets	International Journal on Future Revolution in Computer Science & Communication Engineering	Volume 04, Issue10	pp:01-04	October 2018	ISSN: 2454-4248	6.035	N	N	N
3.	Pradnya Kapadnis, P.R. Devale	A Survey on Travel Recommendation Based on Social Media POI	International Journal of Research in Electronics and Computer Engineering.	Volume 07, Issues 01	pp: 266-268	March 2019	ISSN: 2348-2281	4.305	N	N	N

4.	Runal G. Pramod Jadhav, S.D. Joshi, Pruthviraj R. Pawar	Functional Test Case Generation And Redundancy Removal Based on Model Driven Testing Using UML Activity Diagram	International Journal of Mechanical Engineering and Technology	Volume 10, Issue 05	pp:318-324	May 2019	ISSN: 0976-6340	9.22	Y	N	N
5.	Runal G. Pramod Jadhav,	Model Driven Testing- Functional Test Case Generation with Redundancy Check and Model Paradigm Approach	International Journal for Research in Applied Science & Engineering Technology	Volume 07, Issue 06	pp:1392-1398	June 2019	ISSN: 2321-9653	7.177	N	N	N
6.	Aadil Farooq, Pramod Jadhav, S.D. Joshi	Model Driven Testing based on Functional Test Case Generation with Redundancy Check	International Journal of Mechanical Engineering and Technology	Volume 10 Issue 04.	pp:219-225	April 2019	ISSN: 0976-6340	10.6879	Y	N	N
7.	P.R. Devale, Pradnya Kapadnis	Personalized Travel Recommendation based on Facebook Data	Journal of Emerging Technologies and Innovative Research.	Volume 06, Issue 05	pp:57-60	May 2019	ISSN:2349-5162	5.87	N	N	N

8.	P.R.Devale, Vandana Bhupkar	Histopathologica l Image Classification Using Advanced Machine Learning Techniques	Journal of Emerging Technologies and Innovative Research.	Volume 06, Issue 05	pp: 46-50	May 2019	ISSN: 2349 - 5162	4.305	N	N	N
9	Mahamat Adam Boukhari M.D.Gayakwa d	An Experimental Technique on Fake News Detection in Online Social Media	International Journal of Innovative Technology and Exploring Engineering	Volume 08, Issue 8S3	pp:52 6-530	June 2019	ISSN:2278 -3075	5.54	Y	N	N
10	Divya Diksha Kumari, Priya Ranjan, Snehal Chaudhari, Priyanka Paygude	Online Voting System using Advance Biometric Verification	Journal of Emerging Technologies and Innovative Research	Volume 06, Issue 05	pp: 261- 265	May 2019	ISSN: 2349-5162	5.87	N	N	N
11	Abhishek Singh Rawat, Akash Yadav, Gopal Tibrewal, Sayuj Koul, Priyanka Paygude, Snehal Chaudhari	Automatic Attendance Monitoring	Journal of Emerging Technologies and Innovative Research	Volume 06, Issue 06	pp: 542- 546	June 2019	ISSN: 2349-5162	5.87	N	N	N

12	Snehal Chaudhari, Priyanka Paygude	Emotion Recognition using Python and Open CV	International Journal of Research and Analytical Reviews	Volume 06, Issue 02	pp: 955-961	June 2019	ISSN: 2348-1269	5.75	N	N	N
13	Apurv Agrawal, Sonali D. Mali, Snehal Chaudhari, Akash Yadav, Priyanka Paygude	Evolution of Programming Paradigm and Novel Approach Towards Development	Journal of Emerging Technologies and Innovative Research	Volume 06, Issue 06	pp: 53-56	June 2019	ISSN: 2349-5162	5.87	N	N	N
14	Amol K. Kadam, T.B. Patil, Yash Kesharwani, Harsh Garg, Akash Gupta	A Location Specific and Trends based Video Streaming Platform with Integrated Web Speech API through Angular 6	International Journal of Computer Sciences and Engineering	Volume 07, Issue 02	pp: 434-438	February 2019	ISSN: 2347-2693	3.022	N	N	Y
15	Pravesh Panwar, Deepanshu Agarwal, Purva Vyas, P. A. Jadhav, S. D. Joshi	Evolution of Testing with Respect to the Programming Paradigms	International Journal of Mechanical Engineering and Technology	Volume 10, Issue 03	pp: 1067-1072	March 2019	ISSN: 0976 - 6359	0.727	Y	N	Y

16	Aadil Farooq, Pramod Jadhav, S.D.Joshi	Model Driven Testing based on Functional Test Case Generation with Redundancy Check	International Journal of Computer Sciences and Engineering	Volume 07, Issue 02	pp:10 16- 1019	February 2019	ISSN:2347 -2693	2.15	Y	N	Y
17	Jaydeep Jayprakash Patil, S. P. Medhane	Secure Data Mining in Cloud using Homomorphic Encryption for Numeric and Text Data	International Journal of Research in Electronics and Computer Engineering	Volume 07, Issue 02	pp:32 02- 3207	June 2019	ISSN:2348 -2281	0.543	N	N	Y
18	Jivago Mutunda Kumesa, P. R. Devale	A Survey on Classification of Geolocation of Country from Worldwide Tweets	International Journal on Future Revolution in Computer Science & Communication Engineering	Volume 04 Issue 03	pp: 264- 268	March 2018	ISSN: 2454-4248	6.035	N	N	N
19	Vandana V. Bhapkar, P. R. Devale	A Survey on Histopathologica l Image Classification Using Advanced Machine Learning Techniques	Research Review International Journal of Multidisciplinar y	Volume 04, Issue 01	pp: 804- 807	January 2019	ISSN:2455 -3085	5.164	N	N	N

20	Maruti Maurya, Milind Gayakwad	Survey on Interactions of People towards Social Commerce Era	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	Volume 03, Issue 05	pp:11 32- 1135	June 2018	ISSN: 2456-3307	1.638	N	N	N
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**Academic Year 2019-20**

**International Journal**

Sr. No.	Author (s)	Complete Title of the Article	Title of the Journal	Volume & Issue Number	Page Nos.	Month and Year of Publication	ISSN	Impact Factor	Listed in Standard Databases (Y/N)		
									Scopus	Web of Science	Google Scholar
1.	Shweta Maurya, Nidhi Chauhan, Rajat Singhal, Himnshu Pandey, Prof. G.V Bhole	Secret Sharing Using Visual Cryptography"	JETIR	vol 6, issue 6,	343-348	June 2019	ISSN-2349-5162	5.87	-	-	Y
2.	Diksha Ingale, prof. G.V Bhole	Overview of the Wireless Technologies (LiFi and WiFi)	IJIRT	vol 6, issue 1	406-409	June 2019	ISSN: 2349-6002	5.86	-	-	Y
3.	Omveer Singh Deora, Pawan Jha, S.T. Sawant Patil, T.B. Patil, S. D. Joshi	Monitoring and Training Stock Prediction System for Historical & Live Dataset using LSTM & CNN	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Volume-8 Issue-11	1636-1639	September 2019	ISSN: 2278-3075	-	Y	-	Y
4.	Deepanshu Agarwal, Pravesh Panwar, Purva Vyas, T.B. Patil,	Enhancing Image Security by employing Blowfish Algorithm further embedding text and Stitching the RGB components of a Host Image	International Journal of Recent Technology and Engineering (IJRTE)	Volume8 Issue2S11	3801-3808	September 2019	ISSN: 2277	-	Y	-	Y

5.	Snehaprabha A Jadhav, S.B.Vanjale, P.A.Jadhav	A Survey on Emotion Recording on Twitter: Comparative Study and Training a Unison Method	Journal of Emerging Technology & Research (JETIR)	Volume 7 and Issue 4	845 to 848	April 2020	2349-5162	-	Y	-	Y
6.	Priya Gaikwad, Pramod A. Jadhav, Y C Kulkarni	Survey Paper on Effective Heart Disease Prediction Using Hybrid Machine learning	Journal of Emerging Technology & Research (JETIR)	Volume 7 and Issue 4	845 to 848	April 2020	2349-5162	-	-	-	-
7.	Yogini Kulkarni	Security Modeling for Web Based Visitor's Login System for Pursuance of Security Design Pattern	International Journal of Innovative Technology and Exploring Engineering	Volume-9 Issue-1	Page No. 982-991	November 2019	ISSN: 2278-3075	-	-	-	-
8.	Aporva Agarwal Sonali D. Mali	Evolution of Programming paradigm and novel approach towards development	Journal of Emerging Technologies and Innovative Research	Volume 6, Issue 6	53-56	June 2019	ISSN: 2349-5162 5.87	-	-	-	Y
9.	Milind Gayakwad, Mahamat Adam Boukhari	An Experimental Technique on Fake News Detection in Online Social Media	International Journal of Control and Automation (IJITEE)	8/8S3/	526-530	6-2019	2249-8958	1.8	Y	-	-

10	Manisha M. Kasar, S.H. Patil, Debnath Bhattacharyya and Jason Levy	FACE DETECTION TECHNIQUES USING DATABASE IMAGES	International Journal of Control and Automation	Vol. 12, No. 6	17-34	30 <sup>th</sup> June 2020	ISSN(P): 2005-4297	0.25	Y	-	Y
11	Priyanka Paygude <sup>1</sup> , Dr. S hashank D. Joshi <sup>2</sup> , Dr. Manj usha Joshi	Fault Aware Test Case Prioritization in Regression Testing using Genetic Algorithm	International Journal of Emerging Trends in Engineering Research	Volume 8. No. 5,	2112-2217	May 2020,	2347-3983	-	Y	-	Y
12	Paygude, P., Joshi, S., Bhattacharyya, D., Kim, T.-H	Comparative analysis of test case prioritization approaches in regression testing	International Journal of Advanced Trends in Computer Science and Engineering	Volume 8, Issue 4	Pp:12 60-1267	July 2019	ISSN: 2278 3091	0.20	Y	N	Y

**Academic Year 2020-21**

**International Journal**

Sr. No.	Author (s)	Complete Title of the Article	Title of the Journal	Volume & Issue Number	Page Nos.	Month and Year of Publication	ISSN	Impact Factor	Listed in Standard Databases (Y/N)			
									Scopus	Web of Science	Google Scholar	UGC Care list
1	Dr. Prakash Devale	An Efficient and Privacy-Preserving Disease Risk Prediction Scheme for E-Healthcare	Journal of Critical Reviews	Volume 7, issue 9	335 4- 336 0	Dec 2020	2394 - 5125		Y	-	Y	Y
2.	MILIND GAYAK WAD and Suhas Patil Dr	Content Modeling for unbiased Information Analysis	Library Philosophy and Practice (e-journal)	--	--	October 2021	1522 - 0222 )	--	Y	-	Y	Y
3.	Varshney, Abhishek and Asthana, Saumya and Patil, Swapnil and Kashyap,	Study of Solving Knapsack Problem Using Genetic Algorithm	Solid State Technology	Vol. 63, Issue 2	93-- 99	September 2020	0038 - 111 X	0.110	Y	-	Y	Y

	Ankur and Paygude, Priyanka											
4.	Priyanka Paygude, Rahul Garg, Pranjali Pathak, Abhinav Trivedi, Aman Raj	Image processing using machine learning	International Journal of Scientific Development and Research (IJSDR)	Volume 5 Issue 9	471-477	September 2020	2455 - 2631	-	-	-	Y	Y
5.	Sunath Khadikar <sup>1</sup> , Pawan Sharma <sup>2</sup> , Priyanka Paygude	Compassion Driven Conversational Chatbot Aimed for better Mental Health	Zeichen Journal	Volume 6, Issue 9	121-127	September 2020	0932 - 4747	00	-	-	Y	
6.	Priyanka Paygude and Dr. S. D. Joshi	Optimization of Test Case Prioritization through Calibration of Genetic Algorithm	Solid State Technology	Vol. 63, Issue 1	93--99	September 2020	0038 - 111 X	0.110	Y	-	Y	Y
7.	TB Patil, MAS Joshi, PA Jadhav,	Comparative Analysis of Code	Solid State Technology	Vol. 64, Issue 1	466-481	November 2020	0038 - 111 X	0.110	Y	-	Y	Y

	SH Patil, SD Joshi	Optimization Techniques with Eminent Applications (Tools)										
8.	Ayush Sharma, Prashant Kumar Mishra, Snehal D Chaudhary	A Website Analytics System Considering User's Category	International Journal Of Engineering Research And Development	Volume 16, Issue 8	18- 22	August 2020	2278 - 067 X	-	-	-	Y	-
9.	Lakshya Bhatt , Varun Srivastava , Raj Saxena , Sarthak Preenja , Snehal D Chaudhary	Fps Game Development Using Artificial Intelligence, Ragdoll Physics & Spatial Audio Feature	International Journal of Scientific Development and Research - IJSDR	Volume 5 Issue 9	21- 27	September- 2020	2455 - 2631	-	-	-	Y	-
10.	Parth Reshamwal, Mayank Thadyan, Siddharth Verma, Parth Saraiya, T. B. Patil	IOT Based Water Monitoring System Using Rainwater and Groundwater	International Journal of Advanced Science and Technology	Vol. 29, No. 08	536 1- 537 0	August 2020	2005 - 4238	-	-	-	Y	-

		Consumption										
11.	Tanya Awasthi1, Prabhanjan Pandey2, Yash Shotriya3, T.B.Patil4, S.D.Joshi	Data Security Enhancement in Cloud Using Morse code and DNA Sequence	International Journal of Grid and Distributed Computing	Vol. 13, No. 2	146 2- 147 6	July 2020	2005 - 4262	-	-	Y	Y	Y
12.	Sonali R. Idate, Dr.T. Srinivasa Rao, Dr.CH.V. M.K. Hari and Dipak J. Mali	AORE Approach Survey: based on Requirement Decomposition Techniques	Jour of Adv Research in Dynamical & Control Systems, Special Issue	Vol. 12, 08-	883- 888	July 2020	1943 - 023X	-	Y	-	Y	-
13.	Shikhar Vaish, Preksha Jagetiya, Gauri Sharma, Gajanan Bhole	Comparative study of detection of COVID-19 using Transfer Learning	International Journal for Research in Engineering Application & Management (IJREAM)	Volume: 07 Issue: 02,		MAY 2021,	ISSN : 2454-9150	-	-	-	Y	-

**Academic Year 2021-22**

## International Journal

Sr. No.	Author (s)	Complete Title of the Article	Title of the Journal	Volume & Issue Number	Page Nos.	Month and Year of Publication	ISSN	DOI Number	Impact Factor	Listed in Standard Databases (Y/N)				Link to the recognition in UGC enlistment of the Journal
										Scopus	Web of Science	Google Scholar	UGC Care list	
1.	Dr. Priyanka Paygude and Aatmic Tiwari	Comparative Analysis on Different Generations of Cryptocurrency	International Journal of Future Generation Communication and Networking	Volume 14, issue 1	pp. 301-3026	July 2021	2233-7857	--	0.153	--	--	Y	--	--
2.	Shubham Tyagi <sup>1</sup> , Rishabh Solanki <sup>2</sup> , Adarsh Tiwari <sup>3</sup> , Rohit Ray <sup>4</sup> , Dr. Priya	Analysis of Various Machine Learning Models for Detecting Depression in Twitter Tweets	Turkish Online Journal of Qualitative Inquiry (TOJQI)	Volume 12, Issue 7,	pp: 661-6625	July 2021	1309-6591	--	--	--	--	Y	--	--

	nka Paygude													
3.	Kunal Khanna, Pratik Awasare Prashant Chavan	Driver Drowsiness Detection System using open`CV and Keras	Internationa l journal of engineering and technology	Vol. 8 Issue 8		August 2021	179 3- 823 6	--	--	--	--	Y	--	--
4.	Mobile Personalized Recommendation of Trends for Social Networks	Gajanan Vinayak Bhole, Teja shwa Khare, Ashutosh Srivastava, Omkar Kadam	Internationa l Research Journal of Engineering and Technology	Volum e: 08 Issue: 07	3565 - 3571	July 2021	2395 - 0056	--	--	--	--	Y	--	--
5.	Web Based College Chatbot - SDABot	Suyash Awasthi1 , Anupriya Purwar2 , Dhananjay Batra3 , Prof. Prakash Devale	Internationa l Journal for Research in Applied Science & Engineering Technology	Volume 9 Issue VIII	853 - 856	Aug 2021-	232 1- 965 3	--	--	--	--	Y	--	--
6.	Speech Emotion Recognition in Python	KM Pratistha1 , Atulya Kumari2 , Prof	Internationa l Journal of Innovative Research in	Volume 9, Issue 8	948 4- 948 6	Aug 2021-	232 0- 980 1	--	--	--	--	Y	--	--

	Using Deep Learning	Prakash Devale <sup>3</sup>	Computer and Communication Engineering											
7.	Existence of a Relation for Finding All Prime Numbers	Sameer Gupta <sup>1</sup> , Anand Kumar <sup>2</sup> , Dr. Prakash Devale <sup>3</sup>	International Journal of Innovative Research in Science, Engineering and Technology	Volume 10, Issue 9	129 19- 129 22	September 2021	231 9- 875 3	--	--	--	--	Y	--	--