

**Department of CSE [Artificial Intelligence & Machine Learning]**

**FACULTY PATENTS LIST (A.Y.2021-22)**

S. No	Application Number	Title of The Patent	Name of the Faculty	Patent Office Journal No	Published Date	Status
1	202241020912	Authenticity And Security For Critical And Important Data Storage Using Blockchain	VANKDOTH RAVINDERNAIK	17/2022	29/04/2022	Published
2	.202241022242	Internet of Things System to Support the Healthcare of the Elderly Population	Dr. G. Vinoda Reddy	17/2022	29/04/2022	Published
3	202241024950	Practicalities Of Machine Learning In Providing Solutions For Predictions And Self-Thinking	SYEDA SUMAIYA AFREEN	19/2022	13/05/2022	Published
4	202241026666	Providing Privacy And Security For Nitizens Database Using Blockchain	G. PARVATHI DEVI	20/2022	20/05/2022	Published
5	202241027781	A Bio-Information Data Transferring System Based On Multiple Blockchains And Method Thereof	Mrs.Swaroopa Rani B	24/2022	17/06/2022	Published



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(54) Title of the invention : AUTHENTICITY AND SECURITY FOR CRITICAL AND IMPORTANT DATA STORAGE USING BLOCKCHAIN

(51) International classification	:H04L0009320000, G06F0021640000, H04L0029060000, G06F0021620000, H04L0009060000	(71) Name of Applicant : 1)Dr Diana Moses Address of Applicant :Associate Professor, Methodist College of Engineering and Technology, King Koti, Hyderabad - 500001. 2)Dr Shyamsunder P. Kosbatwar 3)Dr.Mithun Chakravarthi K 4)Dr Araddhana Arvind Deshmukh 5)VANKDOTH RAVINDERNAIK 6)BANOOTHU RAMJI 7)T Srikanth 8)UPPULA NAGAIAH 9)CHANDRUGONDA MALLESWAR RAO 10)SANDHYARANI 11)Dr. Punam Sunil Raskar 12)MOHUMMAD ABDUL WAHED 13)Md. Razia Alangir Banu 14)A. S. Gousia Banu 15)Dr.T.Sunil Name of Applicant : NA Address of Applicant : NA
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(57) Abstract :

Abstract of the Invention: It is very important and crucial to see that the files/documents which are of at most important to the organization and the government departments including the Research departments are to be maintained with complete security, privacy, and with authenticity. So in this process in order to ensure that the documents are protected and maintained we have made use of the Blockchain for the same. Blockchain technology will provide magical solutions for all the problems associated with the centralized storage. This technology will help the organizations to safeguard their documents with complete integrity and transparency. The use of Blockchain technology will help in providing security in distributed environment, eliminating the need for centralized authority. This will also help in maintaining complete transparency where no user can make any kind of modifications to the data stored in Blockchain database. The data is stored in a encrypted form which enhances the security layer for the data stored. As the data is stored in a distributed manner where in all the nodes store the data it becomes easier to have an access to the required data. As it is performed in distributed ledger System. The technology also ensure corruption free data, which is because the data is stored on multiple nodes and the access is providing or the request for storage is given only when majority of the nodes validates the request. The consensus algorithm used will help the network to make faster decisions where in all the nodes has the say for the request made. The technology is completely organized and is not dependent on the calculations made by the human beings, which makes it highly fault tolerant. The technology makes use of the concept of decentralization to store the data which makes it to survive from any kind of malicious attacks. So we can say the system will not have any kind of breakdowns. This will also ensure that the high cost will be involved to break or to temper the system by the hackers. The dependency on the third party is completely eliminated as the data is stored in decentralized manner and not in a centralized form. This will make the user to have control over the data and dependency on third party is almost negligible. The other advantage of this technology is it programmable where in smart contracts can be created to decide on the policy of providing access to the system. The records/data stored are immutable which is to say cannot be altered at any point of time, because of the use of timestamp associated with each block. All the nodes will unanimously will help to make the decision in order to validate the record for access or to store.

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(54) Title of the invention : Internet of Things System to Support the Healthcare of the Elderly Population

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(57) Abstract :

[014] The evolution of the Internet of Things has enhanced our ability to evaluate, acquire and act on previously unimaginable amounts of data. It allows scenarios to use technological data from different areas that far exceed our needs, convenience and efficiency. IoT is a concept that reflects the connection of any group of people, things, services, networks, at any time, in any place. IoT is a mega trend in next generation technology. IoT makes smart objects the best part that can be connected in the mainstream of cyber physical intelligent system development in various domains including healthcare. Medicine and healthcare are areas where IoT applications are more attractive. The IoT has the potential to enhance many medical applications such as health monitoring, fitness programs, chronic diseases and elderly healthcare. At home, equipped with treatments, medications and home health services is also an area that has a lot of potential for IoT. For this reason, various medical devices, sensors, imaging and diagnostic devices can be connected in one system, in the hope that by treating the information collected in real time, it will reduce healthcare costs, improve quality of life and enrich the user experience. Cardiac arrhythmias or abnormal heartbeats represent one of the leading causes of death among patients with cardiovascular disease and Smart Mobile Sensors are believed to be an effective method of prevention in many aspects of medicine. Although their clinical utility is demonstrated, they continue to be underused in the healthcare industry. These devices, when integrated into healthcare routines, enhance physician-patient relationships, increase patient autonomy and engagement in their healthcare and provide new remote monitoring techniques that will revolutionize healthcare management. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5]

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(54) Title of the invention : PRACTICALITIES OF MACHINE LEARNING IN PROVIDING SOLUTIONS FOR PREDICTIONS AND SELF-THINKING

(51) International classification :G06N002000000, G06N0005040000, G06N0003040000, G06N0003080000, G05B0013020000

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(19) INDIA

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(54) Title of the invention : PROVIDING PRIVACY AND SECURITY FOR NITIZENS DATABASE USING BLOCKCHAIN

(51) International classification	:G06F0021620000, G06Q0010100000, G06Q0020380000, G06Q0050260000, G06F0016270000	(71)Name of Applicant : 1)Dr. Manyam Thaile Address of Applicant :Assistant professor Malla Reddy Engineering College, Maisammaguda, Dhulapally, Medchal. ----- 2)Mohammed Abrar Ahmed 3)Aenugu Rasagnya 4)Anagandula Nirisha 5)Dr R Raja Kumar 6)Dr. Rama Reddy T 7)Archana Patil 8)SHAIK SHARIF 9)G. PARVATHI DEVI 10)Goski Sathish 11)B PREM KUMAR Name of Applicant : NA Address of Applicant : NA
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(57) Abstract :

Abstract of the Invention: As the Nitizens database is important for the nation as a whole, its security and privacy will play an important role, Block chain will help in maintain the security and privacy of the data stored in database and also helps in sharing the data with multiple agencies while maintaining the security and privacy. Here we have designed a framework which is used by various agencies and organization for recording the transactions which are happening at their level. The overall concept is to see that a person born should write his/her name only once and should also get a security number similar to aadhar number. So that all the happening in the life of citizen are recorded and are store in a secured manner. These records will be made available to multiple agencies and organizations for further recording of details. As multiple agencies are going to have an interface with the records, it is very important that these records are stored on digitally distributed database which will work as a centralized distributed ledger. The framework designed to store the data pertaining to the nitizens will make use of blockchain for maintaining the security and privacy of the data. Which will help in storing, accessing and generating reports on the required information from time to time. The designed framework will help to provide access to the data stored to various organizations. Which can be government and non-government organizations. The process time for any type of task will reduce when the information is made handy for the organizations. The designed framework will make use of an algorithm for generation of security number for the nitizen, which will be used to store and access the information. The number generated will help in identification of the location of the person. As the Nitizens database is important for the nation as a whole, its security and privacy will play an important role, Block chain will help in maintain the security and privacy of the data stored in database and also helps in sharing the data with multiple agencies while maintaining the security and privacy. Here we have designed a framework which is used by various agencies and organization for recording the transactions which are happening at their level. The database is recorded with the details of the citizen when he/she is born and from this point till the citizen exists on the earth all the transactions are recorded. The citizen details when recorded on block chain database, we refer the citizen as Nitzen. The concept is to see that a person born should write his/her name only once and should also get a security number similar to aadhar number. So that all the happening in the life of citizen are recorded and are store in a secured manner. These records will be made available to multiple agencies and organizations for further recording of details. As multiple agencies are going to have an interface with the records, it is very important that these records are stored on digitally distributed database which will work as a centralized distributed ledger.

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(54) Title of the invention : A BIO-INFORMATION DATA TRANSFERRING SYSTEM BASED ON MULTIPLE BLOCKCHAINS AND METHOD THEREOF

(51) International classification	: G16H0015000000, G16B0020000000, H04L0009060000, G06F0016160000, G06F0021620000	(71) Name of Applicant : 1)Dr.C.S.Boopathi Address of Applicant :Associate Professor, Department of EEE, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India. Pin Code:603203 Kattankulathur ----- ----- 2)Ms.Pannangi Rajyalakshmi 3)Mrs.Swaroop Rani B 4)Dr.K.Vasanth Kumar 5)Mr.Akoramurthy,B 6)Dr.K.Srinivasa Rao 7)Mr.Vinay Kumar Enugala 8)Mr.Vishal Gupta 9)Dr.Animesh Kumar Sharma 10)Dr.Rajesh Panda Name of Applicant : NA Address of Applicant : NA
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(57) Abstract :

The present invention discloses a bio-information data transferring system based on multiple blockchains and method thereof. The system includes, but not limited to, a memory which stores instructions; one or more processors attached to the memory wherein the one or more processors, when executing the instructions which are stored, are configured to have: a user blockchain node configured for storing user information, a shared key, and a hash key for each user of a plurality of users and further a contract block data which includes contract information about a first user requesting a second user to provide bio-information data, the first user and the second user being included in the plurality of users. Accompanied Drawing [FIG. 1]

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