



Patent Details for Verification_NIRF2026

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Assignee/s Name (Institute Affiliation/s at time of Application)	Page No.
Published Patent for 2023- 2024						
1	202321039765A	Published	Mr. Swanand Kirpekar, Dr. Padmayya Naik	INNOVATIVE TEMPERATURE CONTROL SYSTEM INSIDE A VEHICLE	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	1
2	202321058290A	Published	Dr. Mayura Vishal Shelke, Swanand Kirpekar, Ms.Bhagyashree Dagadu Lambture , Mrs.Sayali Aditya Belhe, Radha Shirbhate, Richa Agnihotri ,Vandana Vinayak Navale, Varsha Rahul Dange	CYBER SECURITY RISK ASSESSMENT AND MANAGEMENT SYSTEM USING AI AND ML FOR ENTERPRISE NETWORK	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	2
3	404302-001	Published	Mr. Yogesh Pawar	Pharmaceutical Deblistering Machine	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	3
4	398539-001	Published	Dr. Bharati P. Vasgi,Dr Kalpana S Thakre, Dr. Girija Chiddarwar, Dr. Smita Chaudhari	Centralized Enterprise Resource Planning Device	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	4
5	202341052710	Published	Dr.Neha Jain	Automated bug detection and repair in software using deep learning	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	5
6	390495-001	Published	Dr.Neha Jain	Augmented reality feedback analysis device	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	6

7	202023107184	Published	Dr Kalpana S Thakre	Communication Efficient Federated Learning System with Data Protection and Data Security (Federal Republic of Germany)	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	7
8	20234103524 3 A	Published	Dr. H. M. Jadhav	TAXONOMY FOR MICRO FACIAL EXPRESSION AND FORGERY DISCRIMINATIO N	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321039765 A

(19) INDIA

(22) Date of filing of Application :10/06/2023

(43) Publication Date : 11/08/2023

(54) Title of the invention : INNOVATIVE TEMPERATURE CONTROL SYSTEM INSIDE A VEHICLE.

(51) International classification :A61B 060300, B60H 010000, C12M 013400, G06Q 300000, H04S 070000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Swanand Sudhakar Kirpekar

Address of Applicant :Marathwada Mitramandal's College of Engineering Sr.No. 18, Plot No. 5/3, CTS No.205, Vadar Vasti Rd, behind Vandevi Temple, Karve Nagar, Pune, Maharashtra 411052 -----

2)Padmayya Shaniyara Naik

3)Vivekanand A Naikwadi

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Swanand Sudhakar Kirpekar

Address of Applicant :Marathwada Mitramandal's College of Engineering Sr.No. 18, Plot No. 5/3, CTS No.205, Vadar Vasti Rd, behind Vandevi Temple, Karve Nagar, Pune, Maharashtra 411052 -----

2)Padmayya Shaniyara Naik

Address of Applicant :Anjuman Institute of Technology and Management Belalkanda, Bhatkal, Karnataka 581320 Bhatkal -----

(57) Abstract :

Abstract:- Thermal comfort is an essential factor for humans in enclosed environments such as passenger automobiles. India is a tropical country with summer temperatures ranging from 450 to 500 degrees Celsius. If a vehicle is parked in such a heated atmosphere for more than 30 minutes, the internal temperature can rise to 600 to 700 degrees Celsius. Temperature rise is affected by Sun locations such as solar azimuth angle and solar altitude angle. If the owner, passenger, or driver enters a hot vehicle, they will experience suffocation and will have no thermal comfort. It is impossible to bring the temperature down to a comfortable level in a short period of time. To manage the temperature, there are two options: turn on the air conditioner or open all windows. When we utilise the air conditioning system to adjust the temperature, it takes longer to achieve a comfortable level and puts greater strain on the engine system. When the temperature is adjusted by opening all windows, it takes longer to reach a pleasant temperature. It is dependent on the outside temperature; if the outside temperature is more than, opening the window will not allow you to attain a comfortable temperature.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321058290 A

(19) INDIA

(22) Date of filing of Application :30/08/2023

(43) Publication Date : 29/09/2023

(54) Title of the invention : CYBER SECURITY RISK ASSESSMENT AND MANAGEMENT SYSTEM USING AI AND ML FOR ENTERPRISE NETWORK

(51) International classification :G06Q0030020000, G06N0020000000, G06Q0040060000, G06Q0040000000, G06Q0040040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Mayura Vishal Shelke
Address of Applicant :AISSMS IOIT, Kennedy Rd, Near RTO, Sangamvadi, Pune, Maharashtra 411001. -----

2)Swanand Kirpekar

3)Ms.Bhagyashree Dagadu Lambture

4)Mrs.Sayali Aditya Belhe

5)Radha Shirbhate

6)Richa Agnihotri

7)Vandana Vinayak Navale

8)Varsha Rahul Dange

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Mayura Vishal Shelke
Address of Applicant :AISSMS IOIT, Kennedy Rd, Near RTO, Sangamvadi, Pune, Maharashtra 411001. -----

2)Swanand Kirpekar

Address of Applicant :Marathwada Mitramandaf's College of Engineering, Sr.No 18, Plot No 5/3, CTS 205, Vadar Vasti Road, behind Vandevi Temple, Karve Nagar, Pune, Maharashtra 411052. -----

3)Ms.Bhagyashree Dagadu Lambture

Address of Applicant :AISSMS IOIT Kennedy Rd, Near RTO, Sangamvadi, Pune, Maharashtra 411001. -----

4)Mrs.Sayali Aditya Belhe

Address of Applicant :AISSMS IOIT, Kennedy Rd, Near RTO, Sangamvadi, Pune, Maharashtra 411002. -----

5)Radha Shirbhate

Address of Applicant :G H Raisoni College of Engineering and Management Wagholi Pune: -

6)Richa Agnihotri

Address of Applicant :G H Raisoni College of Engineering and Management, Wagholi, Pune: -

7)Vandana Vinayak Navale

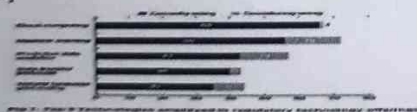
Address of Applicant :AISSM's College of Engineering, No. 1, Kennedy Road, Near RTO Office Sangamvadi, Shivajinagar, Pune, Maharashtra 411001. -----

8)Varsha Rahul Dange

Address of Applicant :Vishwakarma Institute of Technology, 666, Upper Indiranagar, Bibwewadi, Pune, Maharashtra, India - 411 037. -----

(57) Abstract :

The financial sector, led by financial technology (fintech) companies, has been rapidly increasing the use of AI/ML systems (Box 1). Recent adoption by the financial sector of technological advances, such as big data and cloud computing, coupled with the expansion of the digital economy, made the effective deployment of AI/ML systems possible. A recent survey of financial institutions (WEF 2020) shows that 77 percent of all respondents anticipate that AI will be of high or very high overall importance to their businesses within two years. This study explores the use of artificial intelligence (AI) and machine learning (ML) in the financial sector and the resultant policy implications.1 It provides a nontechnical background on the evolution and capabilities of AI/ML systems, their deployment and use cases in the financial sector, and the new challenges they present to financial sector policymakers. Accompanied Drawing [FIG. 1] [FIG. 2]



No. of Pages : 29 No. of Claims : 3

Design Application Details

Application Number:

404302-001

Cbr Number:

200476

Cbr Date:

11/01/2024 15:52:57

Applicant Name:

1. Dr. Anuradha Vishwajit Yenikar 2. Mrs. Pradnya Mehta 3. Dr. Rutuja Kadam
4. Ms. Pranjal Pandit 5. Mr. Amol Vijay Patil 6. Dr. Omkaresh Kulkarni
7. Mr. Amol Suryavanshi 8. Mrs. Grishma Bobhate 9. Mr. Ganesh Kadam
10. Mrs. Vidya Vinod Jagtap 11. Mr. Chitrakant Banchhor
12. Mr. Yogesh Janardhan Pawar

Design Application Status

Application Status:

Application Accepted, Certificate of Design not Generated.

[Back \(/DesignApplicationStatus/\)](#)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : controllerdesign.ipo@nic.in

Controller General of Patents, Designs and Trademarks



ORIGINAL

क्रम सं/ Serial No.: 149410



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र

Certificate of Registration of Design

डिजाइन सं. / Design No.

398539-001

तारीख / Date

27/10/2023

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **CENTRALIZED ENTERPRISE RESOURCE PLANNING DEVICE** से संबंधित है, का पंजीकरण, श्रेणी 14-02 में 1.Dr. Kalpana Sunil Thakre 2. Dr. Girija Gireesh Chiddarwar 3.Dr. Bharati Pavan Vasgi 4.Dr. Sarita Vitthal Balshtetwar 5.Dr. Sangita Maheshwar Jaybhaye 6.Dr. Smita Mahesh Chaudhari के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-02 in respect of the application of such design to **CENTRALIZED ENTERPRISE RESOURCE PLANNING DEVICE** in the name of 1.Dr. Kalpana Sunil Thakre 2. Dr. Girija Gireesh Chiddarwar 3.Dr. Bharati Pavan Vasgi 4.Dr. Sarita Vitthal Balshtetwar 5.Dr. Sangita Maheshwar Jaybhaye 6.Dr. Smita Mahesh Chaudhari.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 30/11/2023
Date of Issue



महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते



Application Details

APPLICATION NUMBER	202341052710
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/08/2023
APPLICANT NAME	1 . DR.KAVITHA H 2 . DR.S.VANAJA 3 . ANURADHA SHARMA 4 . DR.N.SURESH 5 . BABITA VERMA 6 . SEEMA VERMA 7 . DR. NEHAJAIN 8 . DR. P. L. KISHAN KUMAR REDDY 9 . DR. P. KIRAN KUMAR REDDY 10 . DR. P. RAMKISHORE KUMAR REDDY
TITLE OF INVENTION	AUTOMATED BUG DETECTION AND REPAIR IN SOFTWARE USING DEEP LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	mail2patentipr@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/09/2023



ORIGINAL

क्रम सं/ Serial No.: 144523



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र

Certificate of Registration of Design

डिजाइन सं. / Design No.

390495-001

तारीख / Date

17/07/2023

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AUGMENTED REALITY FEEDBACK ANALYSIS DEVICE** से संबंधित है, का पंजीकरण, श्रेणी 14-02 में 1.Mrs. Babita Verma 2. Mrs. Anuradha Sharma 3.Mrs. K. Subhashini Spurjeon 4.Dr. Jyothi Pillai 5.Dr. Neha Jain 6.Mousmi Ajay Chaurasia 7.Seema Verma के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-02 in respect of the application of such design to **AUGMENTED REALITY FEEDBACK ANALYSIS DEVICE** in the name of 1.Mrs. Babita Verma 2. Mrs. Anuradha Sharma 3.Mrs. K. Subhashini Spurjeon 4.Dr. Jyothi Pillai 5.Dr. Neha Jain 6.Mousmi Ajay Chaurasia 7.Seema Verma.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अधधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 25/09/2023
Date of Issue



महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/10/2023

(21) Application No.202321072013 A

(43) Publication Date : 24/11/2023

(54) Title of the invention : COMMUNICATION EFFICIENT FEDERATED LEARNING SYSTEM WITH DATA PRIVACY AND DATA SECURITY

(51) International classification	:G06N0020000000, G06F0021620000, G06K0009620000, G06N0003080000, G06N0020200000	(71)Name of Applicant : 1)Mrs. Yogita Sachin Narule Address of Applicant :Department of Computer Engineering, Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune-411052, India ----- 2)Dr. Kalpana Sunil Thakre 3)Dr.Kamal Upreti Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Mrs. Yogita Sachin Narule Address of Applicant :Department of Computer Engineering, Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune-411052, India -----
(87) International Publication No	: NA	2)Dr. Kalpana Sunil Thakre Address of Applicant :Department of Computer Engineering, Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune-411052, India -----
(61) Patent of Addition to Application Number	:NA	3)Dr.Kamal Upreti Address of Applicant :Department of Computer Science, CHRIST(Deemed to be University), Delhi NCR, Uttar Pradesh 201003, India -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT COMMUNICATION EFFICIENT FEDERATED LEARNING SYSTEM WITH DATA PRIVACY AND DATA SECURITY Aspects of present disclosure the client selection module (101) using client selection federated (FedCS) techniques selects number of clients for training process. The client device (102) configured with the client selection module (101) store necessary training data locally, and the client device send non sensitive information to a central server (103). In another aspect the central server (103) is configured with the processor (104), and the processor using TensorFlow Federated module (105) and machine learning techniques (106) generate a locally trained model. The processor (104) retain the locally trained model until developing a standard trained model and deploys in end user device (107).

No. of Pages : 19 No. of Claims : 4



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

Application Details

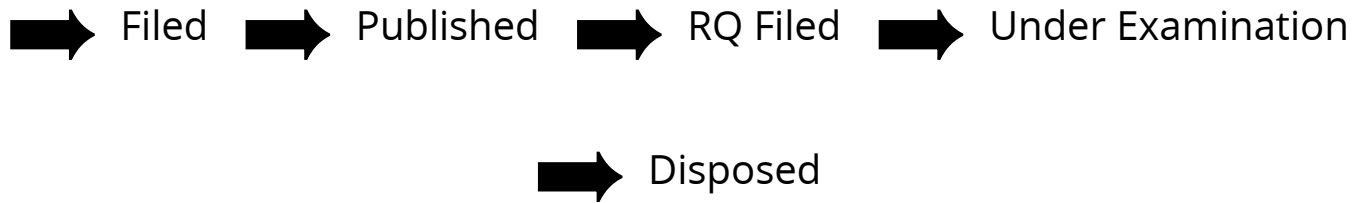
APPLICATION NUMBER	202341035243
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/05/2023
APPLICANT NAME	1 . Dr. Shiju George 2 . Dr. Jyothi Pillai 3 . Dr. Asha Joseph 4 . Hemlata Makarand Jadhav 5 . Nakka Kishore Chandra Dev 6 . Bhakti Prasad Thakre 7 . Ms. Uma Yadav 8 . Ms. Shweta v. Bondre
TITLE OF INVENTION	ADVANCE TAXONOMY FOR MICRO FACIAL EXPRESSION AND FORGERY DISCRIMINATION
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/09/2023

Application Status

APPLICATION STATUS

Awaiting Request for Examination

[View Documents](#)



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in