# SADHU VASWANI INSTITUTE OF MANAGEMENT STUDIES FOR GIRLS

Unaided– Private, Linguistic Minority (Sindhi) Institute
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Dr. B. H. Nanwani
Director

Affiliated to Savitribai Phule Pune University, NAAC Accredited with "B+" Grade
Institute Codes: SPPU: IMMP016030, D.T.E.: 6614, AISHE: C-44578, AICTE: 1-21641511

| CRITERION – III | |
|---|---|
| **KEY INDICATOR** | 3.2 Innovation Ecosystem |
| **METRIC NO.** | 3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge |

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# Research and IPR Cell

## List of Committee Members [A.Y.2022-2023]

| Sr. No. | Committee Members | |
|---------|-------------------|---|
| 1 | Dr. B. H. Nanwani | Chairperson |
| 2 | Dr. Abhijeet Kaiwade | Faculty Member |
| 3 | Mr. Rajnish Mishra | Member (Industry) |
| 4 | Dr. Bharti Dhole | Member (IPR Expert) |
| 5 | Dr. Divya Lakhani | Member |
| 6 | Ms. Vaishali Patil | Member |
| 7 | Ms. Sonali Joshi | Member |
| 8 | Ms. Shraddha Shinde | Student Representative (MBA-Part II) |
| 9 | Ms. Isha Khandekar | Student Representative (MBA-Part I) |

## Sessions / Workshops on Research Methodology

| Year | Name of the workshop/ seminar/ conference | Number of Participants | Date From – To | Link to the Activity report on the website |
|------|-------------------------------------------|------------------------|----------------|--------------------------------------------|
| **Research** | | | | |
| 2023 | Online workshop on Applying for Research Grant | 20 | 30-03-2023 | https://www.svims-edu.in/ay-2022-2023/online-workshop-on-applying-for-research-grant- |
| 2023 | Workshop on SPSS | 45 | 25-03-2023 to 29-03-2023 | https://www.svims-edu.in/ay-2022-2023/workshop-on-spss- |
| 2022 | Course Work on Research Methodology | 35 participants; 25 speakers | 10-10-2022 to 20-10-2022 | https://www.svims-edu.in/ay-2022-2023/course-work-on-research-methodology |
| 2021 | Seminar on Marketing for Bottom of the Pyramid Strategy by Unilever | 37 | 07.08.2021 | https://www.svims-edu.in/ay-2020-2021/seminar-on-marketing-for-bottom-of-the-pyramid-strategy |
| 2021 | Workshop on Google Apps: useful tools for Librarians & Research scholars | 57 | 17.07.2021 | https://www.svims-edu.in/ay-2020-2021/workshop-on-google-apps |
| 2021 | National Level Workshop on 'Introduction to Zotero' | 78 | 03.07.2021 | https://www.svims-edu.in/ay-2020-2021/national-level-workshop |
| 2021 | Workshop on Research Skills by using Grammarly & Typeset Research Studio | 61 | 29.06.2021 | https://www.svims-edu.in/ay-2020-2021/workshop-on-research-skills |
| 2021 | 7 days Workshop on Developing Research Skills | 108 | 29.01.2021 to 05.02.2021 | https://www.svims-edu.in/ay-2020-2021/7-days-workshop-on-developing-research-skills |
| 2019 | Business Research Methods | 66 | September to November 2019 | Subject Syllabus Available |
| 2018 | Desk Research - Performance Evaluation Parameters for an Organization | 40 | 11-03-2018 | https://www.svims-edu.in/ay-2018-2019/performance-evaluation-parameters-for-an-organization |

**Coursework on Research Methodology**



**EXECUTIVE SUMMARY**

- PhD Coursework was conducted at SVIMS from 10th to 20th October 2022. The participants were PhD Scholars and PhD aspirants from Research Centres and Institutes in Pune.
- The PhD Coursework was inaugurated by Dr. B.H. Nanwani, Director SVIMS and Dr. Parag Kalkar, Hon. Dean, Faculty of Management and Commerce and Director SBS. Dr. Nanwani and Dr. Kalkar set the platform with their inputs and expectations from the research scholars.
- More than 25 experts from TISS, SPPU, MMK College and IDOL College, Mumbai, and various B-Schools in and around Pune City were invited to enlighten the participants, for the next 10 days, on various topics on Research Methodology.
- The sessions started with theoretical explanations such as introduction to Research Paradigms.
- Following the theoretical basics, the participants could learn more on objectives, hypothesis formulation and hypothesis testing.
- Sampling Methods and Statistical techniques were dealt by the experts by taking live examples and data, so that the participants could get a hands-on-experience on deciding the appropriate sample and sampling techniques as well as the statistical method and tools.

- The participants were exposed to developing questionnaire using ProQuest, which could be useful in their respective research. The research scholars learned about plagiarism, research ethics, do's and dont's, so that their research documents are free from plagiarized content.
- Finally, the experts demonstrated how to find authentic journals and gave them more inputs on writing and publication of research papers and thesis.
- The feedback given by the candidates on the valedictory session showed that they were very happy with all the sessions and that they could apply the learning, during their course of research journey.
- One of the candidate suggested that the coursework should be conducted before the finalization of the topic of PhD.
- The coursework was concluded with the Vote of Thanks during the Valedictory Function.

## Sessions/ Workshops on IPR

| Year | Name of the workshop/ seminar/ conference | Number of Participants | Date From – To | Link to the Activity report on the website |
|---|---|---|---|---|
| 2023 | World IP Day | 34 | 26-04-2023 | https://www.svims-edu.in/ay-2022-2023/world-ip-day |
| 2023 | World Book and Copyright Day | 24 | 23-04-2023 | https://www.svims-edu.in/ay-2022-2023/world-book-and-copyright-day |
| 2022 | Awareness Session on Intellectual Property Rights (IPR)- National Intellectual Property Awareness Mission [NIPAM 2.0], Kalam Program for Intellectual Property Literacy and Awareness Campaign (KAPILA) and Azadi ka Amrut Mahotsav | 65 | 29-12-2022 | https://www.svims-edu.in/ay-2022-2023/national-intellectual-property-awareness-mission-%5Bnipam-2.0%5D |
| 2022 | Workshop on IPR | 32 | 10-06-2022 | https://www.svims-edu.in/ay-2021-2022/workshop-on-ipr |
| 2022 | Online Workshop on Intellectual Property Rights (IPR) & Patents and Design filing | 39 | 09-06-2022 | https://www.svims-edu.in/ay-2021-2022/online-workshop-on-intellectual-property-rights-(ipr)-%26-patents-and-design-filing |
| 2021 | Seminar on Intellectual Property Rights - Formation of World IPO, its Role and Functions by Dr. Sweta Singh, Founder & CEO, Enable IP Ltd, Mumbai | 64 | 10.06.2021 | https://www.svims-edu.in/ay-2020-2021/seminar-on-intellectual-property-rights |
| 2021 | AI in Demand Forecasting | 386 | 30.03.2021 | - |
| 2021 | Millennials' IP Footprints - Opening up Sluice Gates for Reforms | 914 | 18.01.2021 to 19.01.2021 | https://www.svims-edu.in/ay-2020-2021/millennials'-ip-footprints---opening-up-sluice-gates-for-reforms |
| 2019 | Workshop on Cyber Crime - Protecting Yourself from Online Data Frauds and Scams | 54 | 20/10/2020 | - |
| 2019 | Concept, Need & Importance of IPR (Intellectual Property Rights) | 89 | 29-2-2020 | https://www.svims-edu.in/ay-2019-2020/concept%2C-need-%26-importance-of-ipr- |

| | | | | (intellectual-property-rights) |
|---|---|---|---|---|
| 2018 | Seminar on Patents and Copyrights (IPR Management) | 14 | 03-08-2019 | https://www.svims-edu.in/ay-2018-2019/introduction-to-ipr-and-laws-related-to-ipr-(ipr-management) |
| 2018 | Introduction to IPR and Laws Related to IPR (IPR Management) | 78 | 03-05-2019 | https://www.svims-edu.in/ay-2018-2019/patents-and-copyrights-(ipr-management) |

**Sample Report**

## Workshop on IPR
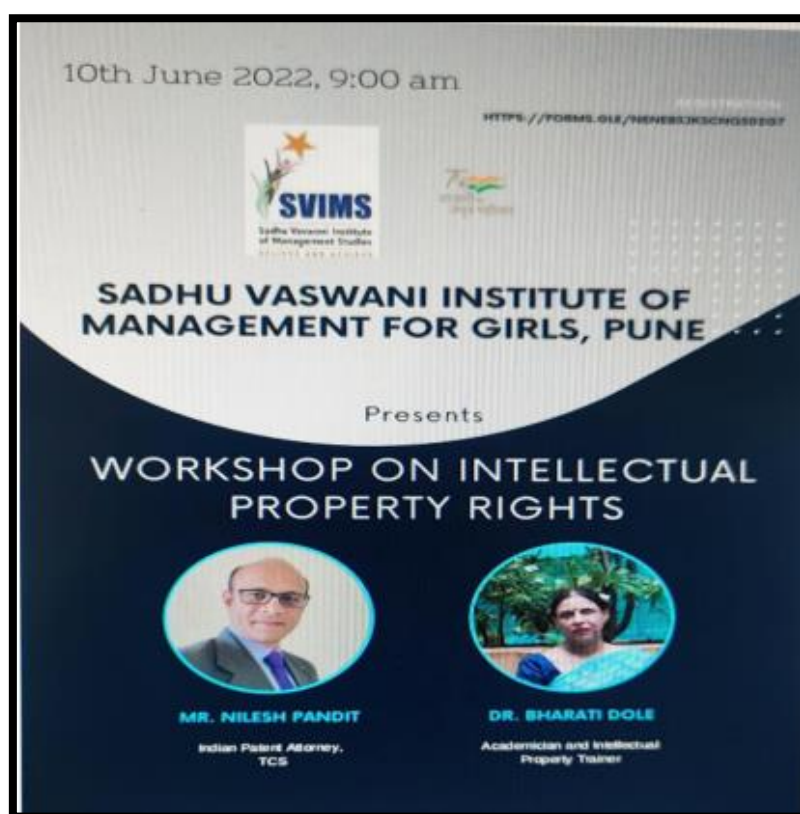


**Resource Persons:**

**Session I: Mr. Nilesh Pandit:** With over 21 years of professional experience is an Indian Patent Attorney and is currently shouldering the responsibilities of IP Protection, IP Compliance at Tata Consultancy Services.

**Session II: Dr. Bharati Dole:** Academician and Intellectual Property Trainer holds a PhD degree and LLB with proficiency in Cyber Law, Intellectual Property Rights and has served as Director of various B schools

The speakers explained about concepts of 'idea', innovation creativity and discovery, Registered Mark and Trademark.

The students were explained how IPR is important and the process of IPR filling and how it is done at TCS.

Dr. Dole especially stressed on how IPR is important for marketing and improving the net worth of a business unit. She explained how share prices go up when companies file more and more patents Students also learned how different intellectual property rights are used in different companies such as: Geox Shoes, Mama Earth and Haier.

**Patents**

**Individual Faculty Wise Patents: [2018-2023]**

| Sr. No. | Name of Faculty | Invention Title | Publication Number | Publication Date | Application Number | Field of Invention |
|---|---|---|---|---|---|---|
| 1 | Dr. B. H. Nanwani, Dr. Abhijeet Kaiwade and Dr. Smita Iyer | Sustainability Accounting: Greenhouse Gas Emissions Saved on Meatless Days Using Machine Learning Calculator | 12/2023 | 24-03-2023 | 2023210 16200 | Computer Science |
| 2 | Dr. B. H. Nanwani and Dr. Abhijeet Kaiwade | Sustainability Accounting of Carbon Emissions for Mode of Transport Used Using Machine Learning Calculator | 25/2022 | 24-06-2022 | 2022210 23845 | Communication |
| 3 | Dr. Abhijeet Kaiwade | Big Data Analysis for HRM and Decision Making for Group Enterprises Using a Cloud Platform | 34/2022 | 26-08-2022 | 2022210 38953 | Computer Science |
| 4 | Dr. Abhijeet Kaiwade | An IOT Integrated Blockchain Technique to Handle Security Information Over Cloud | 06/2022 | 11-02-2022 | 2022410 05364 | Communication |
| 5 | Dr. Abhijeet Kaiwade | Sensor Based Intelligent Digital Nose for Analysing the Breathing Patterns of Lung Cancer Patients Using Machine Learning | 37/2021 | 10-09-2021 | 2021110 39938 | Computer Science |
| 6 | Ms. Sonali Joshi | AI-Mediated Knowledge Sharing Exchange of HRM Practicess: Causes and Effects Towards a Conceptual Model | 27/2022 | 08-07-2022 | 2022210 35320 | Computer Science |
| 7 | Dr. Kalpana Salunkhe | IOT Based Thing Speak Application for Monitoring Electric Vehicles in Smart Cities | 49/2022 | 09-12-2022 | 2022110 69254 | Communication |
| 8 | Dr. Reshma Kadam | Using Techniques like Machine Learning and Artificial Intelligence to Improve the Power Quality of Solar-Powered Microgrids | 14/2023 | 07-04-2023 | 2023210 18328 | Computer Science |

1. Sustainability Accounting of Carbon Emissions for Mode of Transport Used Using Machine Learning Calculator

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## Patent Search

| Invention Title | SUSTAINABILITY ACCOUNTING OF CARBON EMISSIONS FOR MODE OF TRANSPORT USED USING MACHINE LEARNING CALCULATOR. |
|---|---|
| Publication Number | 25/2022 |
| Publication Date | 24/06/2022 |
| Publication Type | INA |
| Application Number | 202221023845 |
| Application Filing Date | 22/04/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMMUNICATION |
| Classification (IPC) | H04L0029080000, G06Q0030060000, B60F0003000000, A61K0051080000, G06Q0050140000 |

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| Dr. Smita Iyer, Assistant Professor | Sadhu Vaswani Institute of Management studies for Girls, 6. Koregaon Road, Pune 411001 | India | I |
| Dr. Abhijeet Kaiwade, HoD | Sadhu Vaswani Institute of Management studies for Girls, 6. Koregaon Road, Pune 411001 | India | I |
| Ms. Harshali Chandgadkar, Student | Sadhu Vaswani Institute of Management studies for Girls, 6. Koregaon Road, Pune 411001 | India | I |

Applicant

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| Dr. Smita Iyer, Assistant Professor | Sadhu Vaswani Institute of Management studies for Girls, 6. Koregaon Road, Pune 411001 | India | I |
| Dr. Abhijeet Kaiwade, HoD | Sadhu Vaswani Institute of Management studies for Girls, 6. Koregaon Road, Pune 411001 | India | I |
| Ms. Harshali Chandgadkar, Student | Sadhu Vaswani Institute of Management studies for Girls, 6. Koregaon Road, Pune 411001 | India | I |

Abstract:

ABSTRACT [500] Our Invention "Supportability bookkeeping of Carbon Emissions for Mode of Transport Used utilizing Machine Learning Calculator" is an in perspecti exploratory pack in Shanghai, this paper first thing examinations scattering of driving co2 spreads among the general populations, and sees that as basically 80% of s from top 20% respondents. To see which components make those people. Conveying an exorbitantly tremendous piece of outpourings, this paper further examinatio association between individual monetary characteristics, travel accessibility, metropolitan manufactured environment and driving releases. The results show that am monetary traits, male direction, pay and vehicle ownership are determinedly related with radiations. Rail receptiveness doesn't in a general sense influence radiation effect of metropolitan thickness is fragile anyway tremendous. Cutting down transmissions factors of development mode and shortening travel distance can obvious surges. From the formula of co2 releases estimation, we can see that surges factors and travel distance can directly reduce radiations. [501] To cutting down surges f are various approaches to meeting this goal, which fuses new advancements growing energy consuming capability and cleaner energies. Moreover, inspiring vehicle feasible strategy for extending explorer loadings of vehicle and subsequently can obviously diminish outpourings. Of course, shortening driving distance is an incredi successful way for releases decline. Thusly, orchestrating of mixed land use should be empowered. 16 Peng Wei, Haixiao Pan/Transportation Research Procedia 00-0( means of vehicle and in this way travel and non-motorized transport address the essential degree. As needs be, thickness almost creates no outcomes on their choic development mode. Multivariate backslide model of connection between individual monetary characteristics, travel receptiveness, developed environment and drivir transmissions.

1
FORM 2
THE PATENT ACT 1970 &
The Patents Rules, 2003
COMPLETE SPECIFICATION
(See section 10 and rule 13)
Indian Patent office. /Delhi/ Mumbai/ Chennai/ Kolkata
TITLE OF THE INVENTION:
Sustainability accounting of Carbon Emissions for Mode of Transport Used using Machine
Learning Calculator.
Name of Applicant Nationality Details of Applicant
Dr. (Ms.) B. H. Nanwani,
Director
AN INDIAN

View Application Status

Department of Industrial
Policy and Promotion
Government of India

Page last updated on: 26/06/2019

## 2. Sustainability Accounting: Greenhouse Gas Emissions Saved on Meatless Days Using Machine Learning Calculator

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### Patent Search

| | |
|---|---|
| Invention Title | SUSTAINABILITY ACCOUNTING: GREENHOUSE GAS EMISSIONS SAVED ON MEATLESS DAYS USING MACHINE LEARNING CALCULATOR |
| Publication Number | 12/2023 |
| Publication Date | 24/03/2023 |
| Publication Type | INA |
| Application Number | 202321016200 |
| Application Filing Date | 10/03/2023 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMPUTER SCIENCE |
| Classification (IPC) | C05F 030000, G06N 030400, G06N 030800, G06N 200000, G06Q 100600 |

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Abstract:

SUSTAINABILITY ACCOUNTING: GREENHOUSE GAS EMISSIONS SAVED ON MEATLESS DAYS USING MACHINE LEARNING CALCULATOR Abstract: In the big data environ develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library S system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big dat personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resour aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, inform resources, technology, services, processes, platforms, and environment has been constructed Arti?cial intelligence (AI) is one of the emerging trends and applications computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of arti? intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of arti?cial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-r robots, virtual reality for immersive learning among others. Although the incorporation of arti?cial intelligence in libraries can be perceived to alienate librarians from it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Arti?cial intelligence will greatly improve libr operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society The fact that carbon emissions must be decreased dramatically and at a rate never before witnessed in human history highlights the significance of discovering structural breaks in carbon emission patterns and under about the causes that may cause such breaks. We apply machine learning algorithms to identify and examine any structural faults. Since 1965, carbon emissions have dropped, but our data reveals that there have been a few exceptions. The majority of these outliers are attributable to structural issues that have nothing to do with c change or mitigation efforts. Despite the fact that our data demonstrate the relevance of non-climate policies in lowering carbon emissions, we do not elaborate on th combination of climate and non-climate policies to implement. Methodologically, our work contributes to the climate toolbox by detecting country-specific structural emissions for the top 20 emitters using an easy-to-use machine-learning approach and decoding the results by dissecting carbon emissions. This study's major object assess which nations are most likely to have a substantial impact on global climate.

## Complete Specification

Description:Descriptions

The threat posed by climate change is receiving greater global attention. Hence, an increasing number of nations are enacting climate change legislation and pledgi... minimise their carbon impact. These measures include sectoral regulations, carbon taxes, and long-term planning. To achieve (global) net-zero emissions by 2050 a... prevent global temperatures from rising by more than 1.5 degrees Celsius, a substantial amount of additional effort must be done in addition to what has already b... done. To reach the goal of net-zero carbon emissions, everyone agrees that the current level of gross carbon emissions must be decreased at an unprecedented rat... Finding gaps in trends of carbon emission and analysing what can cause such gaps are both crucial challenges. We apply machine learning techniques to detect and... investigate structural changes in this study. This helps us discover prospective measures that could drastically affect the trajectory of our efforts to cut emissions. Si... these 20 nations are responsible for 80% of worldwide $CO_2$ emissions, they are the primary focus of our research. The contribution of the paper can be separated i... parts. Second, our empirical study suggests that in order to effectively battle climate change, it may be necessary to implement policies that indirectly reduce emiss... adjusting the structure of the economic system, as opposed to measures that directly target carbon emissions. We also published the results of a global panel data... intended to serve as an illustration. This study reveals that current climate efforts fall short of reducing global carbon emissions to a safe level. Second, the study ad... straightforward analytic approach to examine the links between the implementation of climate policies and the fluctuation of $CO_2$ emissions. Our method can be u... identify if a change in the structure of carbon emissions has happened in any nation. The results are then interpreted using the well-known and straightforward Kay... Identity, which may shed light on the mechanisms underlying the structural changes in emissions (the driving forces include population, GDP per capita, energy inte... unit of GDP, and carbon intensity per unit of energy consumed). With this framework in place, it may be possible to develop a web-based toolkit for analysing global...

View Application Status

1. Big Data Analysis for HRM and Decision Making for Group Enterprises Using a Cloud Platform

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RTI (http://ipindia.nic.in/right-to-information.htm)    Feedback (https://ipindiaonline.gov.in/feedback)    Sitemap (shttp://ipindia.nic.in/itemap.htm)
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## Patent Search

| | |
|---|---|
| Invention Title | BIG DATA ANALYSIS FOR HRM AND DECISION MAKING FOR GROUP ENTERPRISES USING A CLOUD PLATFORM |
| Publication Number | 34/2022 |
| Publication Date | 26/08/2022 |
| Publication Type | INA |
| Application Number | 202221038953 |
| Application Filing Date | 06/07/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMPUTER SCIENCE |
| Classification (IPC) | G06Q0010060000, G06Q0010100000, G06F0016248000, G06F0016953500, H04L0029080000 |

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| Dr Atik Shaikh | Professor Allana Institute of Management Science, Azam Campus, Pune Pin: 411001 State: Maharashtra Country: India | India |
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**Abstract:**

Big Data Analysis for HRM and Decision Making for Group Enterprises Using a Cloud Platform Abstract: This paper designs a big data analysis and decision-making sy
human resources that is based on cloud computing technology in order to address the issue that traditional human resource decision-making technology is unable to
differentiate between massive amounts of human resource data, which results in poor decision-making effect. A plan like this one involves the distributed processing
amounts of enterprise human resource data and the use of a technology that enables configurable data management for the purpose of data normalisation. The Ha
enterprise human resource big data analysis framework that results from this process is then combined with the SaaS mode of the cloud computing platform. During
of the specific analysis, the optimization design of network data transmission and the optimization design of local storage of intermediate results are utilised to acco
group human resource data search and calculation based on the MapReduce engine within the Hadoop framework. These are accomplished through the use of opti
designs. The results of the case analysis show that the system has a higher integrity of decision-making results, which makes up for the deficiencies of traditional hu
management, such as the lack of data resources and the fact that data from multiple data sources cannot be isomorphic and standardised. This makes up for the de
traditional human resource management.

## Complete Specification

Description:Descriptions:

Brownie Wise, the man responsible for the conception of the Tupperware party plan, is quoted as saying, "If you want to build the business, build the people." In po
fact, human resources are the most important resource that an organisation possesses, and the effective management of those resources can be the key to achievi
success. The process of managing people at their places of employment is referred to as "human resource management." The birth of modern human resource
management can be traced back to the industrial revolution. The fundamental principles of human resource management have been outlined by the combination
scientific management practises and the sophisticated art of managing people while they are at work. In the twenty first century, businesses are heavily reliant on t
technological capabilities. Because of advancements in technology, the world has shrunk to the size of a village, and customers now have extremely specific require
for the goods and services they purchase. This demand necessitates a work force that is always ready and completely comprehends the requirements of the custo
This results in various changes at the workplace, including increased diversity, an innovative work culture, flexible organisational structures, flexible working hours,
additional changes. Because of the wide variety of persons in the workplace, management has become significantly more difficult. Nevertheless, it is essential for th
continued existence and success of any organisation to ensure the satisfaction of its workforce. In a situation like this one, the first step would be to have an under
of the labour force. Any choice that is made by the upper management has the potential to have an effect, either positive or negative, on the levels of satisfaction a
performance experienced by the workforce. To have relevant insights into the realm of human resource management is becoming increasingly important. Informat
pertaining to the requirements, anticipations, and levels of contentment in addition to other metrics related with human resource can be of great use. Therefore, th

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2. An IOT Integrated Blockchain Technique to Handle Security Information Over Cloud

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|---|---|
| Invention Title | AN IOT INTEGRATED BLOCKCHAIN TECHNIQUE TO HANDLE SECURITY INFORMATION OVER CLOUD |
| Publication Number | 06/2022 |
| Publication Date | 11/02/2022 |
| Publication Type | INA |
| Application Number | 202241005364 |
| Application Filing Date | 01/02/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMMUNICATION |
| Classification (IPC) | H04L0029060000, G06F0021620000, H04L0029080000, G06F0021600000, H04M0003000000 |

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Abstract:

An IoT integrated block chain technique to handle security information over cloud is the proposed invention which aims at getting the benefits of both the technolog proposed invention addresses the security issues that arise during information exchange over cloud especially through IoT platform. The invention focuses on securi packets with encryption techniques such that the block chain system routes packets to the destined receiver.

## Complete Specification

Claims:WE CLAIM
1. An IoT integrated blockchain technique to handle security information over cloud, comprises of:
Data Packets;
Blockchain unit;
Cloud server;
Cryptographic unit;
and an IoT unit.
2. An IoT integrated blockchain technique to handle security information over cloud, according to claim 1, includes data packets, wherein the data packets are data intended to be communicated to the receiver over cloud.
3. An IoT integrated blockchain technique to handle security information over cloud, according to claim 1, includes cryptographic unit, wherein the cryptographic ur decrypt the data packets with crypto hash and time stamp.
4. An IoT integrated blockchain technique to handle security information over cloud, according to claim 1, includes Blockchain unit, wherein the blockchain unit will the ledger of data packets that pass through it.
5. An IoT integrated blockchain technique to handle security information over cloud, according to claim 1, includes IoT unit, wherein the IoT unit sends alert messag notifications to sender and the receiver in case of any discrepancy.

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## 3. Sustainability Accounting: Greenhouse Gas Emissions Saved on Meatless Days Using Machine Learning Calculator

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### Patent Search

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|---|---|
| Invention Title | SUSTAINABILITY ACCOUNTING: GREENHOUSE GAS EMISSIONS SAVED ON MEATLESS DAYS USING MACHINE LEARNING CALCULATOR |
| Publication Number | 12/2023 |
| Publication Date | 24/03/2023 |
| Publication Type | INA |
| Application Number | 202321016200 |
| Application Filing Date | 10/03/2023 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMPUTER SCIENCE |
| Classification (IPC) | C05F 030000, G06N 030400, G06N 030800, G06N 200000, G06Q 100600 |

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Abstract:

SUSTAINABILITY ACCOUNTING: GREENHOUSE GAS EMISSIONS SAVED ON MEATLESS DAYS USING MACHINE LEARNING CALCULATOR Abstract: In the big data environment develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library S system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resour aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, inform resources, technology, services, processes, platforms, and environment has been constructed Arti?cial intelligence (AI) is one of the emerging trends and applications computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of arti? intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of arti?cial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-r robots, virtual reality for immersive learning among others. Although the incorporation of arti?cial intelligence in libraries can be perceived to alienate librarians from it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Arti?cial intelligence will greatly improve libr operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society The fact that carbon emissions must be decreased dramatically and at a rate never before witnessed in human history highlights the significance of discovering structural breaks in carbon emission patterns and under about the causes that may cause such breaks. We apply machine learning algorithms to identify and examine any structural faults. Since 1965, carbon emissions have dropped, but our data reveals that there have been a few exceptions. The majority of these outliers are attributable to structural issues that have nothing to do with change or mitigation efforts. Despite the fact that our data demonstrate the relevance of non-climate policies in lowering carbon emissions, we do not elaborate on th combination of climate and non-climate policies to implement. Methodologically, our work contributes to the climate toolbox by detecting country-specific structural emissions for the top 20 emitters using an easy-to-use machine-learning approach and decoding the results by dissecting carbon emissions. This study's major object assess which nations are most likely to have a substantial impact on global climate.

## Complete Specification

Description:Descriptions

The threat posed by climate change is receiving greater global attention. Hence, an increasing number of nations are enacting climate change legislation and pledgir minimise their carbon impact. These measures include sectoral regulations, carbon taxes, and long-term planning. To achieve (global) net-zero emissions by 2050 ar prevent global temperatures from rising by more than 1.5 degrees Celsius, a substantial amount of additional effort must be done in addition to what has already b done. To reach the goal of net-zero carbon emissions, everyone agrees that the current level of gross carbon emissions must be decreased at an unprecedented rat Finding gaps in trends of carbon emission and analysing what can cause such gaps are both crucial challenges. We apply machine learning techniques to detect anc investigate structural changes in this study. This helps us discover prospective measures that could drastically affect the trajectory of our efforts to cut emissions. Si these 20 nations are responsible for 80% of worldwide CO2 emissions, they are the primary focus of our research. The contribution of the paper can be separated ir parts. Second, our empirical study suggests that in order to effectively battle climate change, it may be necessary to implement policies that indirectly reduce emiss adjusting the structure of the economic system, as opposed to measures that directly target carbon emissions. We also published the results of a global panel data intended to serve as an illustration. This study reveals that current climate efforts fall short of reducing global carbon emissions to a safe level. Second, the study ad straightforward analytic approach to examine the links between the implementation of climate policies and the fluctuation of CO2 emissions. Our method can be u: identify if a change in the structure of carbon emissions has happened in any nation. The results are then interpreted using the well-known and straightforward Kay Identity, which may shed light on the mechanisms underlying the structural changes in emissions (the driving forces include population, GDP per capita, energy inte unit of GDP and carbon intensity per unit of energy consumed). With this framework in place, it may be possible to develop a web-based toolkit for analysing global

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## 4. Sustainability Accounting of Carbon Emissions for Mode of Transport Used Using Machine Learning Calculator

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### Patent Search

| Invention Title | SUSTAINABILITY ACCOUNTING OF CARBON EMISSIONS FOR MODE OF TRANSPORT USED USING MACHINE LEARNING CALCULATOR. |
|---|---|
| Publication Number | 25/2022 |
| Publication Date | 24/06/2022 |
| Publication Type | INA |
| Application Number | 202221023845 |
| Application Filing Date | 22/04/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMMUNICATION |
| Classification (IPC) | H04L0029080000, G06Q0030060000, B60F0003000000, A61K0051080000, G06Q0050140000 |

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Abstract:

ABSTRACT [500] Our Invention "Supportability bookkeeping of Carbon Emissions for Mode of Transport Used utilizing Machine Learning Calculator" is an in perspecti exploratory pack in Shanghai, this paper first thing examinations scattering of driving co2 spreads among the general populations, and sees that as basically 80% of s from top 20% respondents. To see which components make those people. Conveying an exorbitantly tremendous piece of outpourings, this paper further examinatic association between individual monetary characteristics, travel accessibility, metropolitan manufactured environment and driving releases. The results show that am monetary traits, male direction, pay and vehicle ownership are determinedly related with radiations. Rail receptiveness doesn't in a general sense influence radiation effect of metropolitan thickness is fragile anyway tremendous. Cutting down transmissions factors of development mode and shortening travel distance can obvious surges. From the formula of co2 releases estimation, we can see that surges factors and travel distance can directly reduce radiations. [501] To cutting down surges f; are various approaches to meeting this goal, which fuses new advancements growing energy consuming capability and cleaner energies. Moreover, inspiring vehicle feasible strategy for extending explorer loadings of vehicle and subsequently can obviously diminish outpourings. Of course, shortening driving distance is an incredi successful way for releases decline. Thusly, orchestrating of mixed land use should be empowered. 16 Peng Wei, Haixiao Pan/Transportation Research Procedia 00-0l means of vehicle and in this way travel and non-motorized transport address the essential degree. As needs be, thickness almost creates no outcomes on their choic development mode. Multivariate backslide model of connection between individual monetary characteristics, travel receptiveness, developed environment and drivir transmissions.

1
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THE PATENT ACT 1970 &
The Patents Rules, 2003
COMPLETE SPECIFICATION
(See section 10 and rule 13)
Indian Patent office. /Delhi/ Mumbai/ Chennai/ Kolkata
TITLE OF THE INVENTION:
Sustainability accounting of Carbon Emissions for Mode of Transport Used using Machine
Learning Calculator.
Name of Applicant Nationality Details of Applicant
Dr. (Ms.) B. H. Nanwani,
Director
AN INDIAN

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**Department of Industrial
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Government of India

5. Sensor Based Intelligent Digital Nose for Analysing the Breathing Patterns of Lung Cancer Patients Using Machine Learning

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## Patent Search

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|---|---|
| Invention Title | SENSOR BASED INTELLIGENT DIGITAL NOSE FOR ANALYSING THE BREATHING PATTERNS OF LUNG CANCER PATIENTS USING MACHINE |
| Publication Number | 37/2021 |
| Publication Date | 10/09/2021 |
| Publication Type | INA |
| Application Number | 202111039938 |
| Application Filing Date | 03/09/2021 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMPUTER SCIENCE |
| Classification (IPC) | G06N0020000000, G01N0033574000, A61B0005080000, G06T0007600000, G06F0009540000 |

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| Dr D Lakshmi Padmaja | Associate Professor Department of IT, Anurag University, Hyderabad | India |

Abstract:

The present invention relates to Sensor based intelligent digital nose for analyzing the breathing patterns of lung cancer patients using machine learning. The objectiv present invention is to solve the problems in the prior art technologies related to lung cancer detection.

## Complete Specification

The present invention relates to the field of biomedical
10 engineering.
The present invention is related to field of medical device to
detect the lung cancer.
The present invention relates to the field of sensor based wearable
medical device to detect the lung cancer using identifying the breath
15 patterns of the person.
More particularly, the present invention is related to Sensor based
intelligent digital nose for analyzing the breathing patterns of lung
cancer patients using machine learning.
5
BACKGROUND & PRIOR ART
The subject matter discussed in the background section should
5 not be assumed to be prior art merely as a result of its mention in the
background section. Similarly, a problem mentioned in the background

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Page last updated on: 26/06/2019

1. AI-Mediated Knowledge Sharing Exchange of HRM Practicess: Causes and Effects Towards a Conceptual Model

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### Patent Search

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| Invention Title | AI-MEDIATED KNOWLEDGE SHARING EXCHANGE OF HRM PRACTICES: CAUSES AND EFFECTS TOWARDS A CONCEPTUAL MODEL |
| Publication Number | 27/2022 |
| Publication Date | 08/07/2022 |
| Publication Type | INA |
| Application Number | 202221035320 |
| Application Filing Date | 20/06/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMPUTER SCIENCE |
| Classification (IPC) | G06Q0010060000, G06Q0010100000, G06N0005040000, G06N0005020000, H04W0004210000 |

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Abstract:

AI-Mediated Knowledge Sharing Exchange of HRM Practices: Causes and Effects towards a Conceptual Model Abstract: Increased acceptance of artificial intelligence (A human resource management (HRM) has shifted from producing functional applications to actively engaging employees in their use of such systems. Employees com explicit and tacit information utilising an AI-mediated knowledge sharing (AI-MKS) exchange using HRM-focused AI applications. However, there exists inadequate und of the antecedents and results of such an AI-MKS exchange. Evidence on this topic is timely as growing research points to mixed (positive and negative) implications o technological adoption. Therefore, this research applies a dual review technique, wherein a narrative review accompanies a systematic literature analysis to construct model for understanding the causes and effects of an AI-mediated knowledge-sharing exchange using AI-enabled HRM apps. We incorporate the theoretical literature knowledge sharing, HRM, and AI-mediated social exchange for creating our theoretical model. Specifically, the systematic literature review points to an individual, soc technological, and organisational level antecedents of knowledge sharing, which interact with various types of an AI-MKS social exchange to deliver high levels of pers hyperpersonalization, and individualization for employees as well as deliver HR effectiveness.

## Complete Specification

Description:Descriptions:

The Fourth Industrial Revolution (4IR) marks an increased usage of emerging technologies, such as artificial intelligence (AI), big data, machine learning, mobile tech the Internet of Things, geo-tagging, virtual reality, speech recognition, and biometrics. The deployment of these modern technology affects the way business is cond locally or worldwide and has had a great impact on the way work is designed, workers are engaged, and workplace processes transformed. Indeed, major concerns misgivings have been made regarding the role of AI in causing job destruction and humanity's basic base and essence. Nevertheless, AI and other related intelligenc applications bring opportunities for organisations to achieve optimal strategic business outcomes, such as enhancing service quality, productivity, cost-effective ser excellence (CESE), return on investment, operational efficiency, customer engagement and loyalty, employees' service quality and reducing considerable operational capital cost. Moreover, such research also produces beneficial individual-level outcomes, such as employee and talent experiences, intention to resign and job happ refers to a large family of technology that lets a machine to execute tasks that normally require human intellect, including adaptive decision-making. A growing disc academic research investigates different forms of AI digital tools and methodologies and whether enterprises may benefit from such business solutions. In this con current demands for academic scholarship on AI in HRM have garnered great attention in leading HRM publications, covering other relevant disciplinary fields such international management, information technology, and general management. Thus, research at the intersection of AI and HRM adopts an increasingly multidiscipli nature. However, there is still limited understanding in the AI-HRM literature on how AI and associated technologies might offer solutions for effective HRM and sub functional areas and how AI-enabled HRM functions link to other operational duties to deliver better results outcomes for their businesses. Despite the scant knowl

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1. IOT Based Thing Speak Application for Monitoring Electric Vehicles in Smart Cities.

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### Patent Search

| | |
|---|---|
| Invention Title | IOT BASED THING SPEAK APPLICATION FOR MONITORING ELECTRIC VEHICLES IN SMART CITIES |
| Publication Number | 49/2022 |
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| Priority Number | |
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| Field Of Invention | COMMUNICATION |
| Classification (IPC) | H04W0012060000, H04W0084180000, E21B0043120000, H04N0007180000, F21W0131103000 |

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Abstract:

Having a car that can be charged and used can benefit the environment. They also provide various subsidies for the rapid adoption of electric vehicles by the people. a few companies were involved in the production of electric vehicles, but now all the leading automobile companies are involved in the production of electric vehicles At a time when many people think that it is difficult to eliminate toxic air, the arrival of electric cars and scooters has been widely talked about in Chennai. The use of and scooters is continuously increasing in cities. The use of electric vehicles is marked by green color number plates which stand out from other vehicle number plate are important in the use of electric vehicles. Production of these batteries is a bit difficult task. It is from saline lands. Lithium carbonate, the raw material for battery is mined.

## Complete Specification

dioxide per km, an electric vehicle emits 0.87 g of nitrogen dioxide per km to generate electricity from coal. Apart from this, sulfur dioxide, nitrogen oxide, ozone, non-methane hydrocarbons, particulates and ash are emitted from the power plants during coal-fired power generation. So as far as concerned, using an electric car means that we are causing more harm to the environment. This isn't just calculated on the vehicle's electricity demand; a 2019 study by the International Council for Clean Transportation compared the production of an electric car to a conventional gasoline car, and found that an electric car with a large battery produced 68% more air pollution than a gasoline car. Air pollution has been found to be released during production.

As the size of the electric vehicle battery increases, the amount of air pollution generated in the environment during its production also increases many times. Specifically, the study says that for every kilowatt of battery capacity, 150 to 200 kilograms of carbon dioxide are released into the earth. Electric vehicle batteries manufactured by Nissan will have a capacity of 60KWh, which means that at least 9 tones of CO2 must be emitted during production. That's 11.2 tons of CO2 emissions just to produce a 75kWh Tesla car battery that can travel

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1. Using Techniques like Machine Learning and Artificial Intelligence to Improve the Power Quality of Solar-Powered Microgrids.

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## Patent Search

| | |
|---|---|
| Invention Title | USING TECHNIQUES LIKE MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE TO IMPROVE THE POWER QUALITY OF SOLAR-POWERED MICROGRIDS |
| Publication Number | 14/2023 |
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| Priority Date | |
| Field Of Invention | COMPUTER SCIENCE |
| Classification (IPC) | G06N 030800, G06N 200000, G06N 202000, G11C 160400, H01L 271200 |

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Abstract:

USING TECHNIQUES LIKE MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE TO IMPROVE THE POWER QUALITY OF SOLAR-POWERED MICROGRIDS Abstract: In the b environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functio the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the u library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs ba data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject n aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, informa resources, technology, services, processes, platforms, and environment has been constructed Arti?cial intelligence (AI) is one of the emerging trends and applications computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of arti? intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of arti?cial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-r robots, virtual reality for immersive learning among others. Although the incorporation of arti?cial intelligence in libraries can be perceived to alienate librarians from it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Arti?cial intelligence will greatly improve libra operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society Many feel that the Smart Grid is the next step in th of current electrical systems. It operates by trading data and energy for mutual benefit. Smart grids differ from conventional grids in that data flows in both directions utilities and consumers. All of its components and functions must be operational for it to perform its duties effectively. Power quality is one of the most important col when developing a modern power grid. In this study, shunt hybrid filters are emphasised as a method for enhancing the power quality of microgrids. This research er improved and more advanced control method called Adaptive Fuzzy-Neural-Network Control to examine how well the SHF performs in various situations, such as wit loads and supply voltages, in order to develop an SG that performs well in various situations, such as with different loads and supply voltages. Existing control system adaptive fuzzy sliding control and adaptive fuzzy back stepping, are utilised to assess and compare the proposed controller. The analysis is conducted with MATLAB a

## Complete Specification

Description:Descriptions

Since the discovery of electricity, poor power has been a challenge. This problem has dramatically worsened over the past several decades as the number of electro gadgets has increased. As the current from the client appliances flows through the resistance of the supply system, the voltage decreases. This reduction lowers the provided voltage to the consumer. Hence, both the current's voltage and quality are essential. The utility customer is responsible for the quality of the electricity the consume, whereas the power distributor is accountable for voltage reliability. The four categories of electromagnetic events that affect power quality are transients, term changes, long-term changes, and waveform distortions. Waveform distortion is the average change of the supply voltage from a pure sine wave over time. The important aspect of a distorted waveform is its spectral content. Currently, the main objective of both commercial and academic research is to discover how renewa energy systems interact with grids, which necessitates greater performance criteria. In order to boost the energy conversion process's overall availability, dependab power quality, voltage synchronisation, and problem-solving capacity, you must be able to utilise AI and optimization techniques like a pro. Microgrids vary from tra distribution networks that may or may not integrate DERs in two important ways. The fact that nodes can continue to function in a "island" state indicates the netw dependability and resilience. Second, this will provide the impression to the network upstream that the units are being managed and coordinated. Microgrids provid advantages to more than just users and utilities. The majority of these benefits result from boosting the network's flexibility at the community layer. Among the adv are increased dependability, improved power quality, decreased carbon emissions, reduced transmission and distribution losses, cheaper energy supply, and the po of active parity. The field of computer science known as "artificial intelligence" has regained popularity in recent years. In the context of microgrids, artificial intellige several uses in the real world. For instance, it can aid in making better use of existing data and supporting individuals with decision-making when there are multiple

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