

Dr. Arun Patil

Principal

Date:

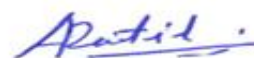
Ref. No.:

CRITERION III	
KEY INDICATOR	3.3: Research Publication and Awards
METRIC NO.	3.3.2: Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

3.3.2.1: Total number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings year wise during last five years

Item	Year				
	2021-22	2020-21	2019-20	2018-19	2017-18
Number of Research Papers	14	14	00	03	04
Total number of Research Papers	35				
Average number of Teachers	38				
Number of Research Paper per Teacher	0.37				





Dr. Arun R. Patil
PRINCIPAL
Vishwakarma College of Arts
Commerce & Science
Kondhwa (Bk.), Pune - 411 011



Bansilal Ramnath Agarwal Charitable Trust's

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ID No. PUN/PN/ACS/275/2007

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College Code S24

CRITERION III	
KEY INDICATOR	3.3 Research Publications & Awards
METRIC NUMBER	3.3.2

3.3.2 Number of books and chapters in edited volumes/ books published and papers published in national/ international conference proceedings per teacher during last five years

COVER AND TITLE PAGES OF BOOKS AND PROCEEDINGS DURING THE CALENDAR YEAR

2017-18

Sr.No. 3/6, Laxminagar, Kondhwa (Bk), VIIT Campus, Pune-411048
Ph. : 7888016565 / 7888076565 | Fax : +91 020 - 26932700 | E-mail : principal@vcacs.ac.in | Website : www.vcacs.ac.in



Institute of Business Management and
Research, Chakan, Dist Pune



In association with
Indo Global Chamber of Commerce
Industries and Agriculture

In Collaboration with

World Management Congress 2017

International Conference on

Innovative Emerging Strategies in Economics, Commerce, Banking, Law, Management, Engineering, Computer Science and Applications

This is to certify that

Prof. Vaishali Kale

of **Vishwakarma College of Arts, Commerce and Science, Pune.**

has participated and presented the paper entitled

Originative Human Resource Iterates and Their Impact on Employee

Satisfaction in IT Industry: Special Reference to Pune City

at International Conference on *Innovative Emerging Strategies in Economics, Commerce, Banking, Law, Management, Engineering, Computer Science and Applications* held at Science City, (National Council of Science Museums, Ministry of Culture, Govt. of India), J.B.S. Haldane Avenue, Kolkata-700 046 West Bengal, India on Friday, 29th December, 2017.

Mr. Mandar Brahma
Conference Coordinator

Dr. Tanmoy Rudra
Executive Secretary
Confederation of Indian Universities

Prof. Rakesh Mittal
Secretary General
Indo Global Chamber of Commerce,
Industries and Agriculture

Prof. (Dr.) Aftab Anwar Shaikh
President IGCCIA
Conference Secretary



Use of IoT in Minor Road Accident Scenario: Prevention and Countermeasures

S.Chitnis^a, A.Patil^b, V.Patil^b, S.Karekar^c, N.Deshpande^c, A.Shaligram^d

a. Vishwakarma College of Arts, Commerce and Science, Pune

b. Vishwakarma Institute of Information Technology, Pune

c. Abasaheb Garware College, Pune

d. Department of Electronics Science, Savitribai Phule Pune University, Pune

Abstract:

Traffic situation all over the world is very chaotic now-a-days. It has become a global problem with an ever-growing trend. While there are thousands of road accidents every year in India, the percentage of a major accident which can result in serious injuries or losses is very trivial. Whereas minor road accidents of any kind of vehicles (two- or four-wheelers) are becoming a major concern these days. Universally the prime reason of minor road accident is narrow and improper planning of road development, illegal parking, increasing number of populations, an inadequacy of traffic police, easily available loan facilities and higher purchasing power of the public. The average number of vehicles in India is growing at the rate 10.16 percent annually, since last five years [1]. And, therefore traffic conditions in India are getting worse day by day resulting in congestion and collision. Many a time, such small collision i.e. minor accident creates unnecessary conflicts and exchange of arguments which results only in traffic congestion without finding the culprit and not getting the expected outcome for the innocent driver. To avoid such scenarios, there is a need to develop a system (specially in developing countries like India) which should inform automatically to nearby relatives, service station, police station, cab/ rickshaw service team and medical rescue team that some minor accidents have taken place along with the geo-graphical location.

This paper proposed a method using various Internet of Things (IoT) devices, sensors and cameras for monitoring such minor accident scenarios and find out the culprit. The true power of IoT makes sure that safe and sound driving continues to be unleashed. Along with IoT, we will have to use huge network of sensors which helps us to determine the state of the vehicle and then can take appropriate actions as well. In short, we have proposed an Intelligent Remote Automated Monitoring System (I-RAMS) which is hassle-free and providing on-time solutions for the problems. To increase the accuracy rate we will have to use MatLab tools to simulate dynamic systems integrated with customizable block libraries. It analyzes all possible scenarios and gives us a perfect relationship of Input and Output. To provide hassle-free solutions, the intensity of accident will also be determined. The system will be compatible enough to incorporate all the features like an auto phone call to nearest one, on-road vehicle detection using GPS, sensors and CCTV footage, on spot medical facility mechanism, service station facility, rickshaw/ cab booking, cashless payments and if required, inform nearest police station.

Keywords

I-RAMS, IoT, simulate dynamic systems, network of sensors

Intelligent Transport System -Bus Rapid Transportation in Maharashtra-India using IoT(Internet Of Things)

A.A.Patel ^a, S.V.Khole ^a, S. D. Chitnis^a, A.R. Patil^a V.A. Patil ^b

a: Vishwakarma College of Arts Commerce And Science,Pune,India

b: Vishwakarma Institute of Information Technolgy,Pune India

Currently, in India, the BRT system is been in used since last 10 years in many metro cities. These systems are using automatic announcement system and air conditioned buses. But, the main disadvantage of using public transportation is the irregularity in their scheduling, making the passengers to wait for a long time and thus reach late at their respective places. Similarly, passengers or travelers with physical disabilities are unable to use basic public transportation system due high height of the bus boarding floor. All this reasons, have led to design of the BRTS. In this, very few BRT systems are using ITS with currently having the information display system of the bus route inside the bus and at the respective boarding stations.

Intelligent Transport system (ITS) is a set of broad and diverse technologies. It comprises of number of technologies with information processing communication ,control and electronics which provides a wide range of benefits such as saving time and cost. It also efficient for environment and economical cost. Using ITS system provides transport improvements with a minimal of capital investment. It will provide real time of bus arrival information at every stop so travelers can easily plan for their schedule.

In this proposed system, the ITS will involve the use of four such technologies, the RFID (Radio Frequency Identification), GPRS (General Packet Radio System), GPS (Global Positioning System) and Fleet characteristics.

RFID has being emerged as a key for real-time tracking of an bus. The RFID tag will be located on the bus while the RFID reader will be present at the boarding station. As and when a bus arrives at a particular boarding station the RFID reader will read the unique address from the RFID tag. The time of arrival of the bus and the name of the bus will be stored in the database. The processor already contains a look-up table which has the unique addresses of each bus against its registration number. This enables us to know which bus has arrived at the station. The information is then loaded into the server. The server updates the information in the database and forwards it to the other stations using GPRS. As the bus arrives at a particular station, the other stations will be informed about the time that will be required to reach their stations. This enables the passengers to know where the bus is currently present, and in how much time the bus is expected at the desired stop. All this information will be displayed on a display present at all the boarding stations. [1] Fleet characteristic will play an important role in the ITS. It will count the exact number of passengers boarding or alighting in the bus or at the stations. Also, in this system, a mechanical guided wheel is used so as to guide the driver of the bus exactly in the bus

bay with specially curb designed for guidance. This will keep an as low as possible gap between the platform of boarding station and the boarding floor of the bus so that, the passengers specially with physical disabilities will get an easy access to board in a bus.

Keywords: RFID, GPRS (General Packet Radio System), Fleet characteristic



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College Code:824

CRITERION III	
KEY INDICATOR	3.3 Research Publications & Awards
METRIC NUMBER	3.3.2

3.3.2 Number of books and chapters in edited volumes/ books published and papers published in national/ international conference proceedings per teacher during last five years

**COVER AND TITLE PAGES OF BOOKS AND PROCEEDINGS DURING THE
CALENDAR YEAR**

2018-19

Sr.No. 3/6, Laxminagar, Kondhwa (Bk), VIIT Campus, Pune-411048

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Reaccredited by NAAC with 'A' Grade (CGPA. 3.03)

Two-Day National Conference

On

'Literature of Protest'

Organized by

Department of English

Sponsored by

BOD, Savitribai Phule Pune University, Pune

CERTIFICATE

This is to certify that Mr. Mr. / Ms. / Dr. / Prof. Rupesh Mandlecha of Vishwakarma Arts, Comm. College, Kondhwa participated in two-day National Conference on 'Literature of Protest' organized by Dept. of English, S.M. Joshi College, Hadapsar, Pune (MS) India on January, 10 and 11, 2020. He Attended/Delivered a Plenary Speech/Chartered a Plenary Session/Coisted a Paper Presentation Session / Worked as a Resource Person / Presented a research paper entitled, "Voices of Oppressed Women in Anita Desai's Novels."

His/Her participation is highly appreciated



Dr. Malvadeo Jare
Coordinator



Dr. Anand Ilpparkar
Convener



Prin. Dr. Arvind Burungale
Conference President





Dept. of History,
Devchand College, Arjunnagar,
Kagal, Kolhapur, MS. India.



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Indo Global Chamber of
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Commonwealth Vocational
University,
Kingdom of Tonga

2nd International Multidisciplinary Conference

Theme I:

Management, Commerce, Economics,
Humanities, Social Sciences, Law,
Technology, Engineering & Environment

Theme II:

Languages, Literature, Education and
Culture (English, Hindi, Marathi, Urdu,
Arabic, Kannada and Konkani)

Day & Date: Tuesday, 30th October, 2018

Venue: Devchand College, Arjunnagar, Kagal, Kolhapur, MS, India.

CERTIFICATE

This is to certify that

Prof./Dr./Mr./Ms./Mrs. Ms. Swati Vinayak Joshi *of*
Research Scholar of B.M.C.C (SPPU) Assist. Prof., Vishwakarma College of Arts, Commerce and Science

has participated and presented a research paper entitled

A Study of Swabhiman Scheme of Financial Inclusion In India -A Case Study of Shivari Village, Pune

District

*at International Multidisciplinary Conference Organised by Devchand College, Arjunnagar,
Kagal, Kolhapur, MS. India on Tuesday, 30th October, 2018.*

Dr. Prakash M. Hefekar
Principal, Devchand College

Dr. Arati B. Nadgouda
Conference Convener

Dr. Chandravadan M. Nalk
Conference Secretary

Prof. (Dr.) Aftab Anwar Shaikh
Conference Secretary



(23rd - 24th January 2019)

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's

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Certificate

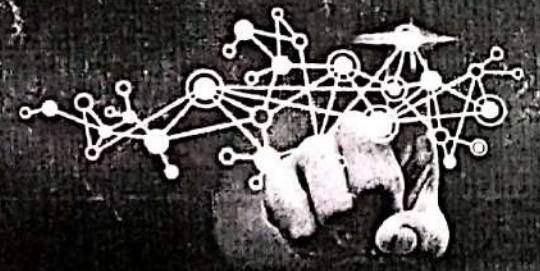
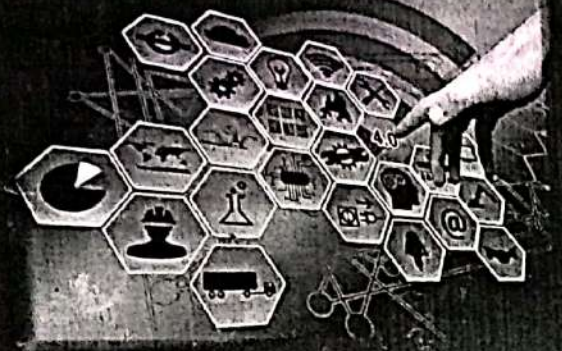
This is to certify that Prof. / Dr. / Mr. / Ms. Swati Patil
of Vishwakarma College of Arts, Commerce and
Science College, Pune. has participated /

presented a paper / chaired a session / delivered invited talk, in the International Conference on
"Internet of Things (IoT) and its Applications", organised in collaboration with Savitribai
Phule Pune University, Pune on 23rd and 24th January, 2019.

The title of the paper presented is / delivered invited talk on A Review and
Forecasting Road Accidents using Machine
Learning.


Prof. Arun Gangarde
Secretary ICIoT


Prin. Arun Gawale
New Arts, Commerce & Science

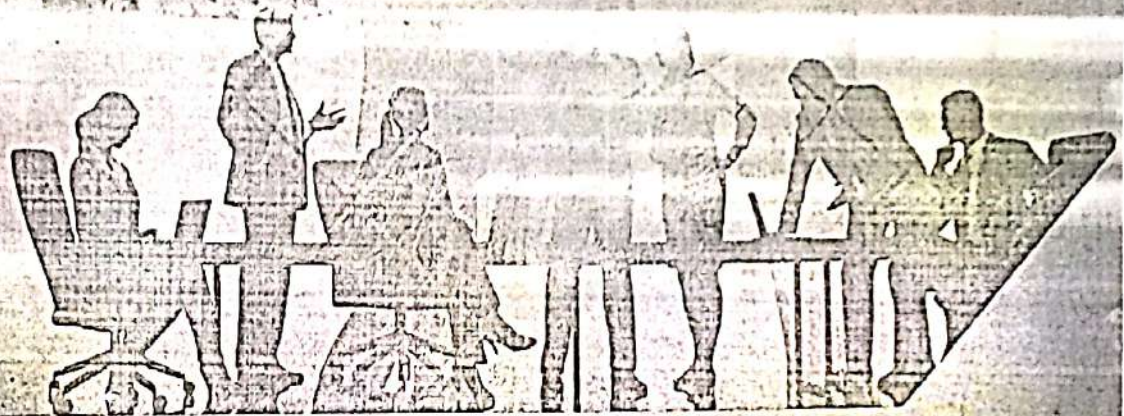


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**COVER AND TITLE PAGES OF BOOKS AND PROCEEDINGS DURING THE
CALENDAR YEAR**

2020-21



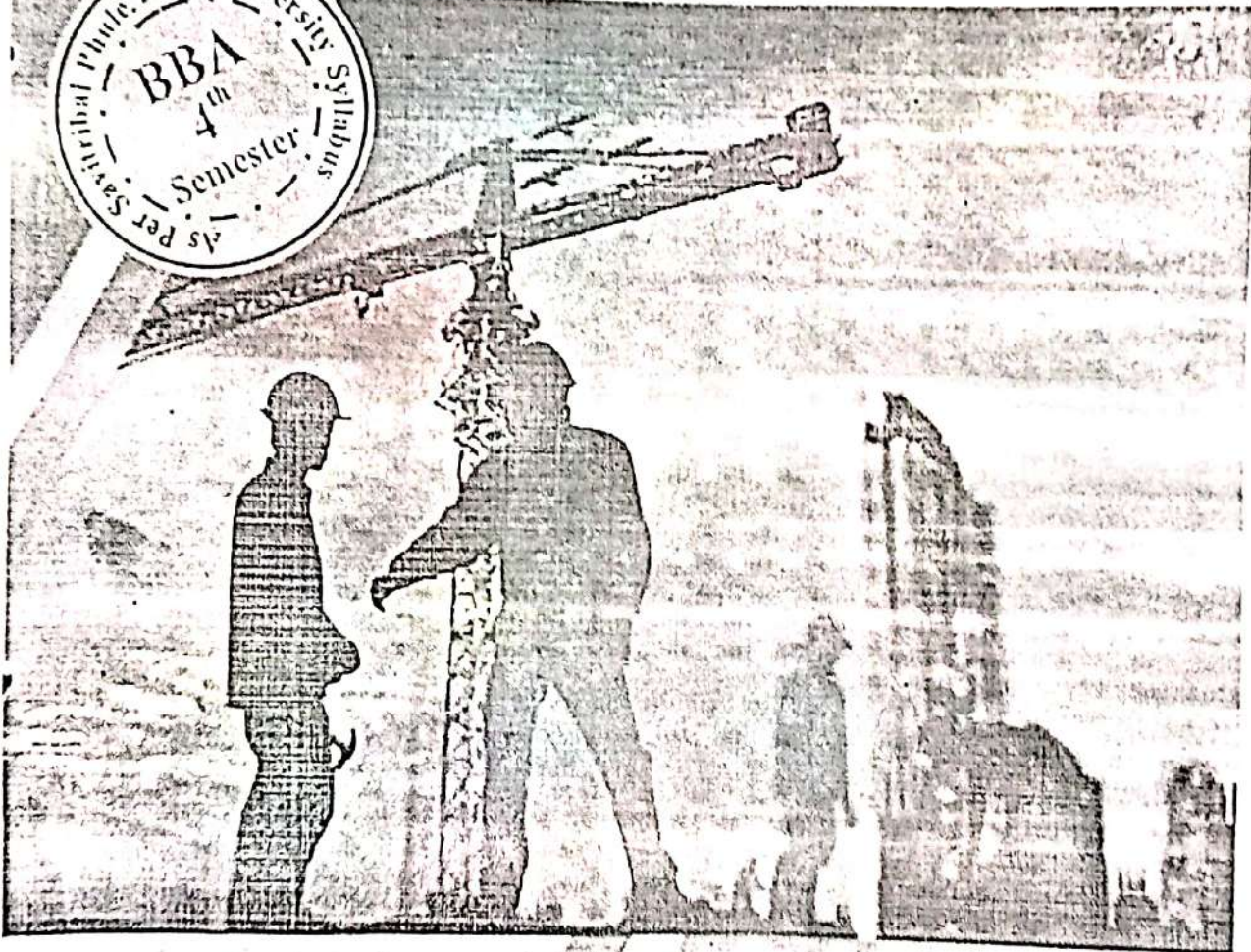
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8th -10th March 2021

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This is to certify Dr./Shri/Smt. Arun Ramchandra Patil From Vishwakarma College of Arts, Commerce and Science has successfully attended / Presented Poster at MEMP-2021 International Conference conducted by C-MET Pune on digital platform during 8-10th March 2021


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Convener
MEMP-2021


Dr. Bharat B. Kale
Director General
&
Chairman MEMP-2021


Dr. Sudhir Arbuji
Co-Convener
MEMP-2021

International Conference
on
Multifunctional Electronic Materials and Processing (MEMP-2021)



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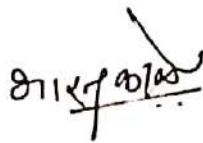
8th -10th March 2021

Certificate

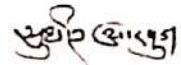
This is to certify Dr./Shri/Smt. Anjum A. Patel From Vishwakarma College of Arts, Commerce and Science has successfully attended / Presented Poster at MEMP-2021 International Conference conducted by C-MET Pune on digital platform during 8-10th March 2021



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Director General
&
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Dr. Sudhir Arbuj
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MEMP-2021

International Conference
on
Multifunctional Electronic Materials and Processing (MEMP-2021)

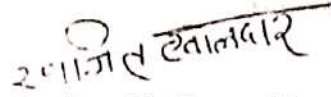


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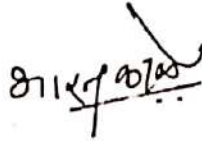
8th -10th March 2021

Certificate


This is to certify Dr./Shri/Smt. Sudhir Devidas Chitnis From Vishwakarma College of Arts, Commerce and Science has successfully attended / Presented Poster at MEMP-2021 International Conference conducted by C-MET Pune on digital platform during 8-10th March 2021



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MEMP-2021



Dr. Bharat B. Kale
Director General
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Dr. Sudhir Arbuj
Co-Convener
MEMP-2021



Maharashtra Education Society

Institute of Management & Career Courses (IMCC), Pune

International Conference on Computer Technology, Management and its Applications (IC2TMA-2021)

CERTIFICATE OF APPRECIATION

Awarded to Sudhir Chitnis of
Vishwakarma University for Publishing / Presenting paper
entitled Statistical Analysis and Classifier Accuracy Improvements Models for
Road Accident Issues on National Highways in India at
International Conference on Computer Technology, Management and its Applications
(IC2TMA-2021) online mode held on April 16th -17th, 2021.

Dr. Ravikant Zirmite
Organizing Secretary IC2TMA-21
Associate Prof., MES' IMCC, Pune

Dr. Santosh Deshpande
Conference Chair IC2TMA-21
Director, MES' IMCC, Pune

Statistical Analysis and Classifier Accuracy Improvements Models for Road Accident Issues on National Highways in India

Chitnis S.D.

S & T Department Vishwakarma University Pune, India surusudhir21@gmail.com

P Gokhale

S & T Department) Vishwakarma University Pune, India prasad.gokhale@vupune.ac.in

Abstract— Road traffic accidents are undistinguishable incidents. They have been a major cause of concern across the Indian subcontinent. Like the Indian subcontinent, the majority of under-developing countries have increasing death rates due to vehicle collisions. Furthermore, there are not an adequate amount of safety factors by which we can analyze the traffic collisions before it happens. However, machine learnings conventional algorithms have their strong position in the field. In this paper, an analysis of vehicle collision using correlation matrix and assignment of the most compatible machine learning classification techniques for road accidents estimation has been intended. A data set of 2368 accidents cases were examined for road conditions and types of an accident using supervised learning methods. The data set was analyzed with potentially relevant indicators. A comparative study over different machine learning supervised techniques like a k-nearest neighbor, Logistic Regression, and Random Forest were evaluated. The data set was randomly split into two parts: training (70%) and test (30%). A 5-fold Cross-validation method was applied during modeling, and a testing set was employed to validate the prediction performance of the supervised learning models. Model performance evaluation is done using three accuracy measures like confusion matrix, AUROC, and classification report. The accuracy analysis, together with the correlation matrix, revealed that the best models for the prediction of road traffic accidents for the given data set is the k-nearest neighbor classifier when compared with other learning algorithms and the best hyperparameters for k-nearest neighbor are Manhattan (metric), 17 (n_neighbor) and uniform (weights).

Keywords— Machine learning, correlation matrix, k-nearest neighbor, Logistic Regression, Random Forest, Cross-validation, confusion matrix, AUROC

I. INTRODUCTION

Road accidents in recent times continue to remain a cause of worry. Statistics often communicate blunt yet brutal truths. With only 1% of the world's vehicles, India accounts for 11% of the global death in road accidents, the highest in the world, according to a report by the World Bank



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Department of Electronics and B.Sc. Computer Science (Entire)

Organized

National Web Conference on

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This is to certify that, Dr./Mr./Ms Poonam Shankar Chavan of
Vishwakarma College or Art's, Commerce and Science has presented paper entitled
"A STUDY ON IOT ADDRESSING THE CORONA VIRUS AND ITS APPLICATIONS" in the
National Web Conference on **Emerging Trends in Electronics and Computer Science**
organized by Department of Electronics and Department of B.Sc. Computer Science (Entire)
on 22nd and 23rd June 2020.

D. Patil

Mr. D. A. Patil
Head, Dept. of B.Sc.
Computer Science (Entire)

P. N. Gore

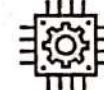
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Vice Principal

S. K. Rathod

Dr. S. K. Rathod
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B. P. Ladgaonkar

Dr. B. P. Ladgaonkar
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This is to certify that

Dr. SHITAL MANTRI

participated & presented a paper in "One Day Online International
Conference on New Horizons in Commerce, Management &
Economics: A way forward" on 13th March 2021.

Paper Title: A study of effectiveness of welfare
facilities on Job Satisfaction: A
comparative study of IT industries and
Automobile Industries


Fazal Lahori
Conference Secretary


Md Shakir Lahori
Conference Secretary


Prof. Arab Abdul Aziz
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Dr. Abdul Majid Ansari
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Chairman

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&
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Organisation, Vijaypur, Karnataka

Certificate

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DR. SHEETAL WAGHMARE

participated & presented a paper in "One Day Online International
Conference on New Horizons in Commerce, Management &
Economics: A way forward" on 13th March 2021.

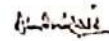
Paper Title: A study of effectiveness of welfare
facilities on Job Satisfaction: A
comparative study of IT industries and
Automobile Industries



Fazal Lahori
Conference Secretary



Md Shakir Lahori
Conference Secretary



Prof. Arab Abdul Aziz
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Chief Editor

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*International Conference
On*



Modern Research in Agriculture, Biological, Medical and Environmental Sciences

Certificate of Participation

This is to certify that Prof. / Dr. / Mr. / Ms. **Patil P. N.**

has participated in the International E-Conference on Modern Research in Agriculture, Biological, Medical and Environmental Sciences organized by Indian Academicians and Researchers Association on 21st February 2021

He / She has presented the paper titled

DATA PACKET SECURITY IN MANET AND VANET



RAM
Dr. Tazyn Rahman
Conference Convener



Sanjivani Rural Education Society's
Sanjivani College of Engineering, Kopergaon
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(Accredited by NAAC with 'A' Grade)
DEPARTMENT OF COMPUTER ENGINEERING
(Accredited by NBA)

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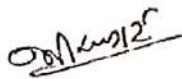
International Conference
on
RECENT TRENDS IN COMPUTING (ICRTC 2021)

Certificate

This is to certify that Patil Prajakta Nitin, Department of Computer Science Vishwakarma College of ACS Pune, has participated / presented a paper in the "International Conference on Recent Trends in Computing (ICRTC 2021)" organized by Department of Computer Engineering, Sanjivani College of Engineering, Kopergaon, Maharashtra, India during May 21 & 22, 2021.
Title of the paper: Blockchain Technology: Rising Trend in Various Applications

Verify @




Dr. D. B. Kshirsagar
[Convenor & HoD-Computer]


Dr. A.G. Thakur
Director

2020
ICOST

CERTIFICATE
OF APPRECIATION
to

Ruta R. Vaidya

Vishwakarma College of Arts, Commerce and Science

for participating as a presenter for the paper entitled

Machine learning amalgamation of Mathematics, Statistics and Electronics

in
the **1st International Conference on Advancements in
Science and Technology (ICOST2020 - online)**
dated on 25 & 26 July 2020



Dr. R. Ranjith
Editor in Chief

IRJASH
eISSN : 2502 - 4376

Journal Partner

List of Research Publications: Academic Year 2021-22

Sr. No.	Title of the Paper	Name of the Author/s	Department of Teacher	Name of Publisher
1	Identifying and Managing issues of Small Scale Industries in India	Poonam Jadhav	Commerce	Shodhsamhita
2	Identifying and Managing issues of Small Scale Industries in India	Madhura Thite	Commerce	Shodhsamhita
3	Employee Engagement in Contemporary Manufacturing Industry and Yogic Principles: A Study with reference to selected manufacturing units in Pune	Dr. Sheetal Waghmare	Commerce	Shodhsamhita
4	Employee Engagement in Contemporary Manufacturing Industry and Yogic Principles: A Study with reference to selected manufacturing units in Pune	Dr. Shital Mantri	Commerce	Shodhsamhita
5	Employee Engagement in Contemporary Manufacturing Industry and Yogic Principles: A Study with reference to selected manufacturing units in Pune	Vaishali Kale	Science	Shodhsamhita
6	Need of Employee Loyalty in Improving Organization Productivity	Vaishali Kale	Science	
7	Need of Employee Loyalty in Improving Organization Productivity	Dr. Shital Mantri	Commerce	
8	Need of Employee Loyalty in Improving Organization Productivity	Dr. Sheetal Waghmare	Commerce	
9	Compensation and Benefits Management	Dr. Shital Mantri	Commerce	Center of Distance and Online Education Bharati Vidyapeeth (Deemed to be University)
10	Compensation and Benefits Management	Dr. Sheetal Waghmare	Commerce	Center of Distance and Online Education Bharati Vidyapeeth (Deemed to be University)
11	Ecofemininity and Spiritualism	Dr. Sheetal Waghmare	Commerce	
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and Challenges in the Indian Economy: The post-pandemic shift in the service sector"
organized by the Department of Commerce & Management Studies of Dnyanprassarak
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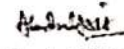
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