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## BIODIVERSITY & INTELLECTUAL PROPERTY RIGHT

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**Abstract** - Biological diversity is the symbol of existence on this planet and the pillar of sustainable growth. The existing Intellectual Property Rights (IPR) system is promising commercialization of seed improvement, monoculture, for tification of new plant diversities, microbes, and naturally reformed organisms. As a result, our ironic biogenetic diversity is being windswept irrevocably. We must discovery a pathway to make a different and unusual approach that will get stability between formal Intellectual Property (IP) system and sustainable phases of biodiversity.

Biodiversity is the foundation of sustainable growth. The urbanized countries are not opulent in biogenetic properties but are well equipped in research and development. They use the biogenetic properties retrieved from the developing countries. As a result, there is a commencement of the vulnerable flow of genetic information from the developing countries to the capital-rich west, and a protected flow in the opposite direction mainly through patents and Plant Breeders' Rights (PBR). It has both visible and unseen bearings. Genetic erosion is one of the most important invisible effects that is in long run demonstrated visibly with the loss and damage of biodiversity. The advent of new biotechnologies and the ability to classify and include exotic genetic material into marketable products has forced the pace of change in the industry and in Intellectual Property (IP) systems. Widespread commercial misuse of genetic diversity catalysed by research and development for obtaining IPR will decide the future of our rich biodiversity.

**Keywords:** Biodiversity, IPR, BD Act, Provisions, Consequence.

### 1 INTRODUCTION

The object of India's Biodiversity Act 2002 (here denoted to as 'the BD Act') is to preserve the rich biodiversity of the nation. The act was implemented in 2003 under the patronages and support of the National Biodiversity Authority (NBA). According to the BD Act, NBA is accountable for Access and Benefit Sharing (ABS), consent for access to and allocation of biological resources, results or knowledge of systematic research to distant citizens, companies or non-resident Indians and numerous other stuffs related to preservation of India's biodiversity. The Act insists upon proper value sharing under commonly agreed terms linked to access and handover of biological resources or knowledge stirring in or obtained from India for various tenacities or purpose.

Biological Diversity Act, 2002 of India has well-defined various jargons. "Biological Diversity" means the variability among alive creatures from all sources and the biological complexes of which they are part and comprises diversity within species or amongst species and of eco-systems [chapter I Clause 2b]. 1 "Biological resources" includes plants, animals and microorganisms or parts thereof, their genetic material and by-products with definite or possible use or value but does not comprise human genetic material [Chapter I Clause 2c]. 1 Intellectual Property Rights (IPR), as the term advocates, are meant to be rights or privileges to thoughts, ideas and information, which are helpful in new inventions or processes. These privileges enable the holder to eliminate imitators from publicizing such inventions or procedures for definite period of time; in turn the holder is required to reveal the formula or idea behind the product/process. The result of IPR is therefore monopoly over commercial exploitation of the idea /information, for a limited and specified period of time. The specified purpose of IPRs is to stimulate inventions, by offering higher economic returns than the market otherwise might offer.

### 2 HISTORY OF IPR AND BIODIVERSITY

The early phase towards creating biodiversity a commodity developed from the United Kingdom wanting to use excellent quality seeds for agricultural production. This gradually led to the Companies marketing registered seeds. Further the government rewarded individuals who improved seeds. This directed to the development of Breeders' Rights that transformed more commercialized and very soon limiting. For above 60 years, diverse



## REVIEW THE AUTOMATIC FACE RECOGNITION MODEL FOR STUDENT BEHAVIORS LEARNING USING ADVANCE DEEP LEARNING

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### Abstract:

Face recognition has been a required subsequently problem of biometrics and it has a variability of applications in modern life. The problems of face recognition interests researchers functioning in biometrics, pattern recognition arena and computer vision. Numerous face recognition algorithms are similarly used in numerous dissimilar applications separately from biometrics, such as video compressions, indexing etc. They can similarly be used to classify multimedia content, to permit fast and proficient searching for material that is of interest to the user. Design an Automatic face recognition model for student behavior's learning using Advance deep learning. Face Detection using Neural Network, dissimilar features of how face detection & recognition mechanism are studied. Numerous survey papers are reviewed and analysis is done for respectively paper. The purpose of this research is to deliver an summary of the functionality of Face Detection using Deep Neural Network for Analyzing the Emotion and Behavior of Student. This proposed work can improve the complete performance of Face Detection process and emphasis on student's behavior thoroughly.

### I. INTRODUCTION

An Adaptive learning system is an academic background for teaching, learning, supervision courses, and loading user data which benefits in improved sympathetic of the manipulator learning behavior and preferences. More significantly, it applies users data to acclimate various visible aspects of the system to the user. Adaptive learning systems tailor learners experience to uniform individual requirements. Adaptive learning frameworks deliver an environment where variation and customization are accomplished in order to advance the learning process. Generally, adaptive learning framework extends the profits derived from traditional Learning Management Systems (LMS), and includes the idea of contribution learners personalized provision in a distance learning setting. The achievement story of mobile technology has made it likely to extract significant facial image features for expression recognition in real time. Allowing for the portability, our system aims to exploit a handful of benefits providing by recent mobile tech-success speed, supply impartial to name a few. This work is concentrated on scheming effective facial expression recognition using camera. Six (6) expressions namely: joy, sad, disgust, angry, fear, surprise are recognized by the system. This component is directed to cover the adaptive learning processes of a student by making adaptive decisions base on the recognized learner's facial expression. In understanding of this, the mobile application detentions the facial image of a learner for mining, it's then analyze to understand what expression is presented in the facial image. Challenges in face detection and recognition: Detecting and recognizing faces are stimulating as faces have a wide unpredictability in poses, shapes, sizes and texture. The problems or challenges in face detection and recognition are listed as follow: Pose: A face can vary be contingent on the position of the camera during the image is captured. Attendance of structural components:



# Emerging Use Cases of Digital Banking in the Rural Markets during and After Lockdown Aims Sars-Cov-19 Outbreak

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## ABSTRACT

Indian Rural economy was not having any B plan for the lockdown market and has seen unprecedented growth. The SARS-COV-19 outbreak in India is one of the worst among the global economies. As the data predicted, community spread is inevitable, which will further lay havoc in the rural population; the only solution in hand is social distancing and personal hygiene. This will be the new norm of the society for long even after the SARS-COVID pandemic recedes. This social lifestyle will be largely dependent upon digital banking. In this paper, the innovative and unique use cases of digital banking at the rural level are recorded to draw a model of digital banking consumption in rural India with special reference to Kanadia, Bicholi and Jhalaira villages of Indore district.

**Keywords - Rural Market, Digital Economy, Payment Banking, Lockdown, SARS-COV-19**

## 1. INTRODUCTION

The banking sector in India has evident for the technological advancement in products and services decades before in the form of reception of a digital platform for performing different banking operations. But even so, it has experienced the utilization of digital banking for a gigantic scope and on the intrigue of the government to struggle with an appalling and profoundly infectious malady named as SARS-COV-19. The impacts of the Coronavirus are radiant to the point that it has crushed human lives as well as affected economies of all most all the nations of the world drastically. With the expansion in the magnitude of Corona affected individuals and trolling demise rates in various parts of the globe, the legislatures of various nations have prompted their residents to stay at home and maintain up social distancing. The situation is likewise the equivalent in India. In such an unfortunate circumstance, the digital platform turns out to be exceptionally essential for individuals to utilize. However, the exercise and convenience of the digital system of payment among the public throughout India are not identical. Digital client are accumulated more in urban areas rather than in the rural part of the India. The current research study is performed with an objective to identify the emerging use cases of digital banking in the rural markets during and after lockdown aims SARS-COV-19 outbreak previous to its happening and subsequent to the normalcy resume.

Today technology has risen as a key asset for accomplishing higher effectiveness, control of activities, efficiency, and benefit for Banks just as it is the acknowledgment of their 'anyplace, whenever, any way' banking dream for clients. In any case, rather than every one of these advantages, the mindfulness and reception pace of banking services among rural clients is as yet discovered low. Subsequently this examination will essentially zero in on the examination of the degree of the clients' mindfulness just as the reception of banking services by the rural clients. There are numerous components like security and protection, trust, creativity, commonality, mindfulness level increment the acknowledgment of technology-based banking services among rural Indian clients.

For security purpose of the general public, In payment and other monetary services, biometrics can defeat a portion of the difficulties related with personal identification numbers (PINs), passwords, or social security numbers, among others. The Reserve Bank of India permitted card networks authorization to tender card tokenization services for a meticulous use case in 2017. In 2019, general consent was expanded, empowering all approved card networks to offer tokenization services to all use cases/channels (e.g. NFC/ magnetic secure transmission (MST)- based contactless exchanges, in-app payments, QR code-based payments) Compared with customary card payments, quick payments can lessen costs by empowering enabling point of-interaction payments without the requirement for conventional payment acknowledgment framework. At the purpose of association, some instant payment solutions integrate the utilization of mobile channels and contactless technologies (e.g. QR codes) that don't depend on the customary electronic payment

**A STUDY OF FACTORS AFFECTING IMPULSE BUYING BEHAVIOUR THROUGH DIGITAL MEDIA****Dr. Vishal Mehta**Associate Professor, Shivajirao Kadam Institute of Technology & Management, Indore  
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**Abstract-** Customers buy products not only for the requirements but also for luxury and enjoyment. The aim of the research work is to present a summarised review of literature of the impulse buying behaviour by analysing various research works in the field of customer behaviour. The effect of Digital Media that have an effect on impulse buying and the relationship between impulse buying and digital media are discussed in this paper. The content analysis of various researches about impulse buying behaviour may be a guide to understand basic features of impulse buying. For another research work by explaining the different factors influencing impulse buying.

**Keywords:-** Impulse buying, digital media, consumer behaviour.

**1. INTRODUCTION**

According to AMA it is "the dynamic interaction of affect and cognition, Behaviour, and the environment by which human beings conduct the exchange aspects of their lives".

A comprehensive definition of impulse buying is proposed by Piron (1991) which is: "Impulse buying is a purchase that is unplanned, the result of an exposure to a stimulus, and decided on-the-spot. After the purchase, the customer experiences emotional and/or cognitive reactions".

According to a collective study made by The Integer Group and M/A/R/C Research (2010), more than half of the unplanned purchases indicate that there are additional items purchased with regard to the shopping lists.

Impulse buying has grandness because of rich level people, many online payment facilities, mobile facility, attractive offers, and effective distribution policy. Most of buyers engage in buying process occasionally in impulse buying.

According to a research people have actively participated in impulse buying because there is huge number of options available for customer.

**1.1 Advantages of impulse buying**

- With help of digital media the impulse buying is increasing day by day.
- Impulse buying helps in growth of GDP and employment generation.
- Impulse buying, through digital media has provided significant market segmentation easily and effectively.

- Impulse buying creates niche marketing strategy through digital media.

**2. LITERATURE REVIEW**

The term "impulse buying" has been important to economics, consumer behaviour, clinical and development psychology, educational researches and criminology in theory and implication con, and this term has identified differently from each other perspectives (Dittmar et al., 1995:491; Rook and Fisher, 1995:305).

Beatty and Ferrell (1998) described that Impulse buying refers to immediate purchases which are without any pre-shopping objective either to purchase the specific product category or to fulfil a specific need. They explained that the impulse buying behaviour occurs after experiencing a buying desire by the shopper and without much reflection. The buying of an item which is out-of-stock and reminded during encountering the product are excluded from the purview of impulse buying.

Mohan et al. (2013:1713) explained "impulse buying is a spur of the moment purchase with the little thought (a shopper sees some candy and decides to buy on a sudden urge) while unplanned reminder buying is buying since the shopper forgot to put an item on his/her list (a shopper sees sugar in the store, remembers he/she is out of stock and buys it)".

Kang (2013:197) mentioned that the buying decision process of impulse buyers is described by being unplanned prior to purchase, likely accompanied by



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# Qualitative Study of the Student's Perception Towards The Learning Management System As A Natural Alternative To The Formal Higher Education

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## ABSTRACT

The entire educational structure since elementary to tertiary level has been distorted during the lockdown phase of the critical fresh epidemic corona virus disease 2019 (COVID-19) not merely in India although evenly crossways the world. Schools, Higher Education Institutions (HEIs) and even Universities are becoming the online streaming corporations in this hard-hitting time of worldwide spreader lockdown among global pandemic situations due to COVID-19. Life doesn't approach with a pause button, thus the education of our students cannot be paused even when the world is underneath rigorous threat of a pathogenic epidemic. The principal Schools, HEIs and Universities of the world are performing live online classes and via Learning Management Systems (LMS) to convey educational knowledge. Students are in front of multitudes of challenges array from internet supply, association troubles, time-consuming network speed and lack of ability to grasp their teaching subjects. Affording the hardware and devices is also a matter of anxiety. This guides to both legal and moral challenges towards the universities. LMS doesn't assurance the law of equality and fairness by which every student might be treating at the time of teaching, evaluations and home assignments. In this paper, the student's perception towards the online classes, like Massive Open Online Courses (MOOC), though LMS is exhibited using a variety of scales suchlike as access, ability, adoption and willingness of the students towards their learning abilities through LMS.

**Keywords -** COVID-19, Lockdown, Online Streaming Corporations, Learning Management System (LMS), Learning Abilities, MOOC

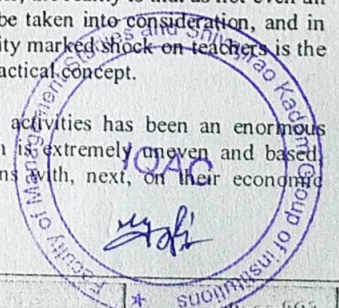
## INTRODUCTION

Currently, the provisional closures of Schools and HEIs outstanding to the COVID-19[1] epidemic are not so older news, because the majority of the countries have closed confronting teaching. This paper points out the instant forces of the epidemic situation on the Universities and HEIs sectors, completely equally for the different functional performers, for the institutions and for the whole educational system. Several forces, that are not immediately observable, are regrettably extremely noteworthy as well as will facade in the medium period and long period. Consequently, it analysis what proceedings governments and HEIs have considered toward assurance the exact step to higher education throughout this epidemic. Lastly, it reflects on a variety of states, and recommends several observations and suggestions w.r.t. the re-opening of HEIs, and points out the significance of commencing provisions at the most primitive.

The present forces of the disaster on HEIs are effortlessly acknowledged, however it is controversial which ones will depart their spot on the diverse functional performers in the medium period and long period.

Teachers are too shocked considerably at their place of work and proficiently. Former, the reality is that as not even all the HEIs contain approaches for their teaching continuity motion so they should be taken into consideration, and in suchlike occasions, provisional contracts might be concluded. Moreover, the majority marked shock on teachers is the anticipation, if undemanding, of the continuity of teaching action by means of the practical concept.

It is apparent to facilitate the impermanent pause internationally of confronting activities has been an enormous interrupter of the functional activities of the HEIs. The bang of this interruption is extremely uneven and based primary, upon their self skill headed for stay dynamic in their academic actions with, next, on their economic sustainability.



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**STUDY OF FACTORS AFFECTING CONSUMERS MOTIVATION TOWARDS USAGE OF  
PAYMENT BANKS**

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**Abstract:**

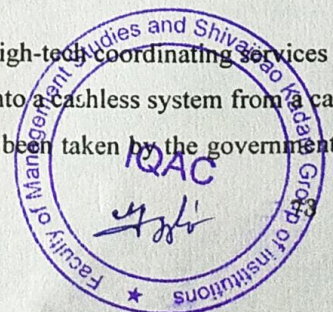
Payment banks are the most dynamic and novel channel of banking. With large amount of competition, every bank is trying its best to respond efficiently to consumer behavior and expectations. This research tries to study the factors influencing the consumer's motivation towards payments banks in Indore district. The research is carried out using primary data collected from customers, who use payment bank services. The results provide with the factors influencing and affecting the consumers usage of payment banks.

**KEYWORDS:** consumer/customer behavior, customer motivation, payment card, banking services, service quality

**Introduction:**

The last decade has seen a rapid growth in both cashless transactions and cashless economy in India. Most of the market today is in a passing phase through a transaction phase. From grocery stores to electronic markets, the presence of payment banks can be seen everywhere. Cashless economy has also made its presence felt in other advanced market serving products and services. Traditional modes of payment are being taken over by plastic cards, online shopping and electronic payments; and their usage is extensive.

The different initiatives taken up by the government along with other high-tech coordinating services are providing high-tech services and thus motivating consumers to move into a cashless system from a cash-based system. Although, in the last few years a number of steps have been taken by the government to





## Informatics in Medicine Unlocked

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## Medi-Block record: Secure data sharing using block chain technology

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## Abstract

With the advances in the era of Artificial intelligence, block chain, cloud computing, big data has the need for secure, decentralized medical record storage and retrieval systems, while cloud storage resolves storage issues but it is difficult to realize the secure sharing of records over the network. The decentralized nature of block chain technology resolves the problem of authentication dependent on third party and imparts secure transmission. This paper proposed block chain based distributed authentication mechanism process and network architecture. Medi-Block presents a tamperproof and anonymous identity management model for medical record sharing for hospitals and patients, utilizing the concept of bilinear mapping for the authentication phase and eliminating third party trust issues. It implements two-way authentications between the patients and the hospital. The effectiveness of the proposed authentication scheme is analyzed by BAN logic, storage overhead and computing cost. The results presented in the paper demonstrate how a block chain platform based on BAN logic can enable medical data sharing while also meeting various security requirements during the authentication phase. Furthermore, reducing average communication time and cost in terms of accessibility meets the requirements of medical data record sharing for integrity, privacy, and availability.

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## Keywords

Data security; Block chain; Authentication; Authorization; Certificate authority

## 1. Introduction



## Microprocessors and Microsystems

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## An effective face recognition system based on Cloud based IoT with a deep learning model

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## Abstract

As of late, the Internet of Things (IoT) innovation has been utilized in applications, for example, transportation, medical care, video observation, and so on. The quick appropriation and development of IoT in these segments are producing an enormous measure of information. For instance, IoT gadgets, for example, cameras produce various pictures when utilized in medical clinic reconnaissance sees. Here, face acknowledgement is one of the most significant instruments that can be utilized for clinic affirmations, enthusiastic discovery, and identification of patients, location of fake gadgets. patient, and test clinic models. Programmed and shrewd face acknowledgement frameworks are profoundly precise in an overseen climate; notwithstanding, they are less exact in an unmanaged climate. Additionally, frameworks must keep on running on numerous occasions in different applications, for example, insightful wellbeing. This work presents a tree-based profound framework for programmed face acknowledgement in a cloud climate. The inside and out pattern have been proposed to cost less for the PC without focusing on unwavering quality. In the model, the additional size is isolated into a few sections, and a stick is made for each part. The tree is characterized by its branch area and stature. The branches are spoken to by a leftover capacity, which comprises of a twofold layer, a stack game plan, and a non-direct capacity. The proposed technique is assessed in an assortment of generally accessible information bases. An examination of the method is likewise finished with top to bottom craftsmanship models for the eye to eye connection. The aftereffects of the tests indicated that the example was considered to have accomplished a precision of 98.65%, 99.19%, and 95.84%.





## Microprocessors and Microsystems

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## Detection of attacks in IoT sensors networks using machine learning algorithm

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## Abstract

Assault and peculiar location on the Internet of Things (IoT) framework is an increasing worry in the IoT region. By the expanded IoT foundation utilization in every area, assaults, and dangers in these frameworks are likewise developing proportionately. Malicious control, Spying, Forswearing of Service, Scan, Data Type Probing, Wrong setup, and malicious operation are such assaults and irregularities that may source an IOT framework disappointment. This project proposes a few Machine learning (ML) module that is contrasted with foresee assault and abnormalities on the IoT frameworks precisely. The ML algorithms that have been utilized here are Artificial Neural Network (ANN), Logistic Regression (LR), Random Forest (RF), Support Vector Machine (SVM), Decision Tree (DT). The assessment measurements utilized in the examination of presentation are  $f1$  score, exactness, area, recollect, and precision under the ROC Curve. Even though these strategies have similar accuracy, different measurements demonstrate that RF executes relatively preferable.

## Introduction

With the growing sales and advancement in the IoT robotized network structure, the IoT models are obtained jumbled little by little [1,2,22]. Members are being alright with the information-driven framework, and this is driving the examination of a more prominent measure of ML-based applications close by IoT. IoT and ML-based methodology is utilized in all parts of people living at present. In drug, comprehension of ECG, infection region utilizing X-Ray, plan to find in genomic information, a