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Automated Speed Governor

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ABSTRACT

In 2016 there was 4, 80,652 accidents reported and by these accidents 1, 50,785 deaths occurred on Indian roads. Highway authority of India reported these accidents were mainly occurred because of over speed. In 2016 speeding caused 66.5% accidents and 61% deaths. Some of the existing systems reducing the accident ratio but it is not acting in a sensible way. This paper aims to make a sensible and driver friendly speed governing system with the help of GPS technology.

This paper proposes an embedded system which works based on geo-fencing technology. The vehicle speed will reduce when a vehicle enters the geo-fenced area. This kind of area details is stored in a database, and it is maintained online by the admin. This is the one part of this system and another important part of this system is a raspberry pi with a GPS module. The vehicle's current latitude and longitude plotted by a GPS module and these values compared with the data which stored in a database by raspberry pi. If the values are matching it tells that now the vehicle is in the geo-fenced area. Then the raspberry pi will communicate with the ECU, and ECU will control the fuel injection system and it will reduce the speed of the vehicle. This embedded system used python and MySQL to connect the raspberry pi with GPS module and ECU. The other programs like PHP and SQL are used to store the values and make a website for this system.

Key Words: *Raspberry pi, GPS, ECU, Geo-Fencing, Fuel Injection system.*

Introduction: The speed governing systems has been implemented India since 2009. In that system, the speed is limited to a constant range. So for all type of roads, the driver should drive within this fixed range of speed. By because of these limitation drivers and the vehicle owners are hesitated to implement this system.

Automated Speed Governor System is an improvisation of the existing system. The system performing according to the condition and character of roads. That means the speed limitation of the vehicle is restricted according to the character of road. The technology known Geo-Fencing is used to accomplish this functionality effectively. Geo-Fencing technology

e- Journal
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allows us to fence an area. GPS module is monitoring the system whether it enter into the fenced area or not. A database is used to store the Geo-Fenced area details.

The Raspberry Pi is controlling all these components and make a communication between the modules. The GPS module tracks the vehicle position continuously. The Raspberry Pi analyze the data's what got from the GPS with stored Geo-Fence data. When the data seems to be equal, the raspberry pi produces a trigger to ECU. This component named ECU is the central controlling system of a vehicle. All the operations done in a vehicle is the part of the ECU. The ECU sensors are monitoring and controlling the system. When ECU got a trigger from Raspberry Pi, ECU will control the flow of fuel injection system and it reduces the acceleration of the vehicle. The raspberry pi will not produce a trigger if the vehicle is running under the speed limit which mentioned in the database. The goal of this system is when the vehicle enters the geo-fenced area the speed should be controlled by raspberry pi.

The Automated Speed Governor giving a rapid response to control the speed of the vehicle. There is no calculation needed to calculate the speed of the vehicle. Because of this calculation, the existing system has accuracy problem. The data are stored in a database through online. The responsible person can add new data, delete existing data, and they can adjust the speed of the vehicles within minutes.

Literature Review

Studies so far shows that Automated Speed Governor is gaining much more attention. **Aamir Sarwar Jahan et al. [1]** proposed a GPS Enabled Speed Control Embedded System This is an embedded speed control system, using AVR ATM mega128 microcontroller connected to EM-406A GPS receiver. The large location data's are stored in this system by offline. The GPS module will locate the current location of the system. It will compare the GPS value with the data's stored in this system. If the data's are matching the system output will communicate with ECU of the vehicle and that will limit the speed of the vehicle.

Sneha Kamble et al. [2] proposed a Vehicle Tracking System. This paper tells how to track a vehicle in an effective way. In this project, two modules are used to locate the vehicle one is GPS and another one is GSM module. The GPS will send the location and with the help of GSM module. The data's show in an electronic medium via the internet or a specialized software.

e- Journal
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Teduh Dirgahayu et al [3] proposed Location-based Request Forwarding in A Geo-fencing Application with Multiple Providers. Geo-fencing is a technology that allows some functionality when users enter into the specified area. In this project plotting the user current position and checking is he in this premises and provide some functions. The user can use their mobile application to do these functions.

Fabrice RECLUS et al. [4] proposed Geo-fencing for Fleet & Freight Management [4]. This paper is based on geo-fencing technology. They are saying about the fundamental concept of geo-fencing and some advanced applications of this technology. In this they mentioned some applications like let the drivers know about the weight and height restriction of the road, dangerous goods transport restriction, etc. .

P. Mondal et al. [5] did this paper A Silent Tsunami on Indian Road: A Comprehensive Analysis of Epidemiological Aspects of Road Traffic Accidents**.** This is the Indian road accident and the effect of these accidents. The road accident reason, how to reduce it, the ratio of the accident, percentage of the accident all the data are mentioned in this paper.

Prashant A. Shinde [6] proposed Advanced Vehicle Monitoring and Tracking System based on Raspberry Pi. This vehicle tracking system based on Raspberry used to track a school vehicle position at the time and provide a facility to the driver. The raspberry pi is connected GPS, GSM, and GPRS module. Both are used to track the vehicle. The GPS is using to identify the current location; GPRS is used to send the information to server and GSM is using to send information to the driver. The system monitoring the vehicle speed and location. Raspberry Pi the GPS value and verify the speed and if it is higher it will send the information to the owner.

Mani Partheesh et al. [7] proposed Use of Geo-fences for Location-Based Activation and Control of Services. In this project various automatic operations and various remote controls based on current geographic location. The geo-fence enables the user to define the areas and when the user into the geo-fence area it will automatically control the system.

System Description:

Raspberry Pi The raspberry pi is built with Quad Core 64 bit processor. Is used to control the entire system and it collect the data from GPS module and compare

e- Journal
ISSN NO. 2456-9828

with the database data. If the data's are matching it will connect with ECU.

GPS The Global Positioning System is used to track the vehicle. It will plot the latitude and longitude of the object. It can identify any location in the earth. The GPS module have antenna and receiver to identify and collect the values.

Engine Control Unit

ECU is a programmable microprocessor. It is controlling all the engine part of the vehicle. All vehicle sensors are connected with this ECU and act according to instruction. The Raspberry pi is connected to ECU and it send instruction to ECU to control the fuel injection. When it gets instruction from the Raspberry pi it will act according to the instruction.

Database: Databases are used to store the values like latitude, longitude and speed. The data which stored in the database is well ordered. The Raspberry pi is connected with the database and continuously communicating each other. The data get from GPS will compare with the data stored in the database.

Id	Speed	Latitude	longitude
1	30	11.568975	76.254878
2	30	12.587854	77.369582
3	50	10.256879	79.214569
4	40	15.258794	75.369745
5	55	16.587987	75.125489
6	55	13.568794	78.254697

Methodology

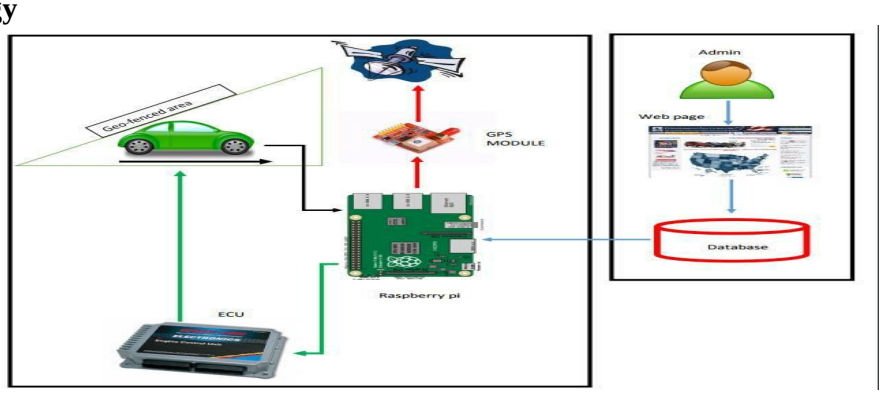

Figure 1: System Architecture

e- Journal
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The above figure 1 shows the system architecture.

Automated Speed Governor built with three hardware component and one website. The major hardware components are Raspberry Pi, GPS module and ECU. Raspberry Pi 3 model B is used in this system to establish a connection between these components and control the components. The power supply for raspberry pi is getting from the car.

Another important component of Automated Speed Governor is GPS module. The Geo-Fencing technology is accomplished with the help of this module. The latitude and longitude of a vehicle plotted by GPS module and this values used to calculate whether the vehicle is in the fenced area or not. The website is providing the data to check the details.

The engine control unit is microcontroller used in modern vehicle to monitor the function. This is very highly sensitive and costly equipment. Raspberry pi is communicating with this equipment. When the GPS data and the data stored in database seems to be equal Raspberry Pi will communicate with ECU. There is port in ECU to communicate with fuel injection system. When ECU got message from Raspberry Pi the fuel injection port will produce a trigger to fuel injection system and that system will reduce the fuel injection to the engine. It reduces the acceleration of the vehicle. These operations happen when the vehicle speed is more than the assumed speed in the database. If it is less than the speed no need of this operation.

Conclusion and Future Enhancement

Automated Speed Governor is an efficient system to control the speed. It is using geo-fencing technology for better efficiency because the GPS module is used only to plot the location and there is no speed calculation based on this module. All data are stored in online source and the admin can change, add and modify the data. According to another system, there are no facilities like this. So it will be a better solution for the Indian road accident and it will be driver friendly.

Automated Speed Governor is using Raspberry Pi and it is a programmable device. In future we can add some more programs to this Raspberry to improve the existing system. We can add motion censoring system to avoid collision, theft protection system, collision detection system etc.

e- Journal
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The Analysis of Different Types of IoT Sensors for smart agriculture and Management

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Abstract:

The human life on planet highly depends on agriculture and management. The sensors can be utilized for smart agricultural management. So this study deeply reviews various sensors available that can be used for smart agricultural management. Remote sensor hubs are regularly minimal effort, low-control; little gadgets outfitted with sensors, information preparing and remote correspondence abilities. Step by step, these are getting to be plainly littler, less expensive, while all the more effective and more inescapable. Sensors of numerous kinds attempt to copy certain sense organs of living creatures talented by nature keeping in mind the end goal to associate with the environment [3].. Sensor innovation speaks to one of the developing zones of material science, hardware and biotechnologies, and is the one that can be used for the applications like Smart agriculture management. As of late sensors have been considered as an exceedingly potential field of logical research. Be that as it may, biosensors likewise have rising now days. The IoT sensors can be adequately utilized for water, transport, garbage, environment and so for smart farming that assumes an indispensable part being developed of the nation keeping in thought this paper clarifies about various sensors utilized as a part of the field for development and yield enhancement and smart management. . This consist of guaranteeing standard methodology with latest advances as web about things with also remote sensor Networks could provoke farming modernization.

Keywords: *Internet of Things, IoT Sensors, Smart agriculture*

Introduction

The words 'sensor' and 'transducer' are both broadly utilized as a part of the portrayal of estimating frameworks and IoT's(Internet of Things).A sensor is a gadget that measures a physical amount and changes over it into a flag which can be perused by an onlooker or by an instrument. For instance a thermocouple [1], Which changes over temperature to the yield voltage which can be sustained to an IoT framework. A sensor is a gadget that gets a boost and reacts with an electrical signal response .Sensors are utilized as a part of various fields of science and

e- Journal
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innovation. Numerous sensors are utilized as a part of agribusiness fields, sensors like physical sensors, dampness sensors, synthetic sensors, biosensors, and so on are utilized for assurance of harvests. The IoT sensors can be adequately utilized for water, transport, garbage, environment and so for farming

Sensors

A word reference meaning of 'sensor' is a gadget that identifies an adjustment in a physical boost and transforms it into a flag which can be estimated or recorded. Another relating meaning of 'transducer' is 'a gadget that exchanges control starting with one framework then onto the next in the same or in the diverse shape [2]. A sensible qualification is to utilize 'sensor' for the detecting component itself and 'transducer' for the detecting component with the related circuits. All transducers would subsequently contain a sensor and the greater part of the sensors likewise transducers. By and large terms, the transduction procedure includes the change of one type of vitality into another frame. A sensor is a gadget that distinguishes or measures an outer boost and records, shows or generally reacts to it [3]. As indicated by the idea of outside boost sensors can be of two essential composes viz. physical sensor and substance sensor. Every electrical transducer are comprehensively arranged under two classes, viz. dynamic and detached. Dynamic transducers are self-generators, working under vitality transformation standards. They create a comparable electrical yield motion without utilizing any outside vitality source. Sensors in farming and ranger service assume a vital part today. In farming , the requirement for expanding the generation and at the same time the endeavors for limiting the natural effect and for sparing costs make the sensor frameworks the best united device. The utilization of sensors misuses every accessible asset fittingly and to apply perilous items modestly. At the point when supplements in the dirt, moistness, sun based radiation, thickness of weeds and all components influencing the creation are known, this shows signs of improvement and the utilization of concoction items, for example, composts, herbicides and other contamination items can be diminished impressively. These exercises fall inside the developing zone known as Precision Agriculture. a great deal of number of exercises is arranged towards wood creation or woodland inventories with the points of controlling parameters of intrigue, for example, width of trees, stature, crown tallness, bark thickness and different factors,

e- Journal
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for example, shade, stickiness, brightening, CO2transformation, where the social approval is of intrigue. in charge of changing over any physical wonder into an amount quantifiable by an information obtaining framework. Latent transducers work under vitality controlling standards. They rely on the adjustment in the electrical parameter like protection, inductance or capacitance excitation and requires optional electrical vitality from an outside source. A portion of the more typical transducers are talked about in underneath segments. system. Passive transducers work under vitality controlling standards. They rely on the adjustment in the electrical parameter like protection, inductance or capacitance excitation and requires auxiliary electrical vitality from an outside source. A portion of the more typical transducers are talked about in underneath segments..

Physical sensor

Physical sensor are for the most part estimating for physical amounts, for example, length, temperature weight, power, weight, sound and so on. It can be characterized as a gadget which react to physical property, called boost, and create a corresponding measurable electrical flag [4, 5].these sensors help agriculture system to maintain the physical property of the field.

Chemical sensor

A gadget which reacts to a specific way by a synthetic response and that can be utilized for the quantitative or subjective assurance of the change is called compound sensor. Such sensor is worried about distinguishing and estimating a particular synthetic substance or set of chemicals [4].in the agriculture fields to maintain the chemical components in the pesticides sprinkled and fertilizers used.

Micro sensors

Micro sensor are group of sensors that extremely small type and capable of picking up and relaying various environmental information. Such devices capable of measuring biological, thermal, chemical, and other types of relevant data and send them to a processor, which then converts to a meaningful form to allow access to it for a variety of purposes [8]. The various Micro sensor devices types of accelerometers, , combo sensor, pressure sensor, gyroscope sensor, proximity sensor, humidity sensor and magnetic sensor etc available in market for IoT. This categories of sensors can be used for air temperature, soil temperature at a different

e- Journal
ISSN NO. 2456-9828

profundities, precipitation, leaf wetness, chlorophyll, wind speed, dew point temperature, wind heading, relative moistness, sun based radiation, and environmental weight are estimated and recorded at foreordained interims. This information is aggregated and sent remotely to a focal information lumberjack at customized interims. Their convenience and diminishing costs make climate stations alluring for ranches of all sizes**.**

Biosensor

Biosensor is subset of synthetic sensor yet is regularly regarded as a different territory. It is an interdisciplinary territory with correct breaking points can't be characterized effortlessly [3]. Fundamentally the biosensor is an independent logical gadget which reacts specifically and reversibly to the focus or movement of synthetic types of natural examples, which implies any sensor physically or artificially worked in organic examples can be considered as a biosensor utilizing living segments or a result of living things for the estimation. Sensor range can be from extremely easy to the complex. They are characterized in light of their properties that what it quantifies, what are its determinations, what physical marvel it is detecting, what change strategy is utilized, what material it is made, and what is the field of utilization [3]. Any electrical transducer is a detecting gadget that a physical, mechanical or optical amount to be estimated and changed specifically with an instrument to an electrical voltage or current that is relative to the information measurand.

Commonly used sensors in Internet of Things (IoT)

The large varieties and sort of sensors accessible in the market at show day. They are utilized for the change of nature of human way of life. The significance of IoT rises step by step, a sensor in its part is planned the estimation of physical outside jolt and records, demonstrates or reacts to it that can be perused by a client or another gadget. The most ordinarily utilized sensors in Internet of things are depicted in the accompanying.

e- Journal
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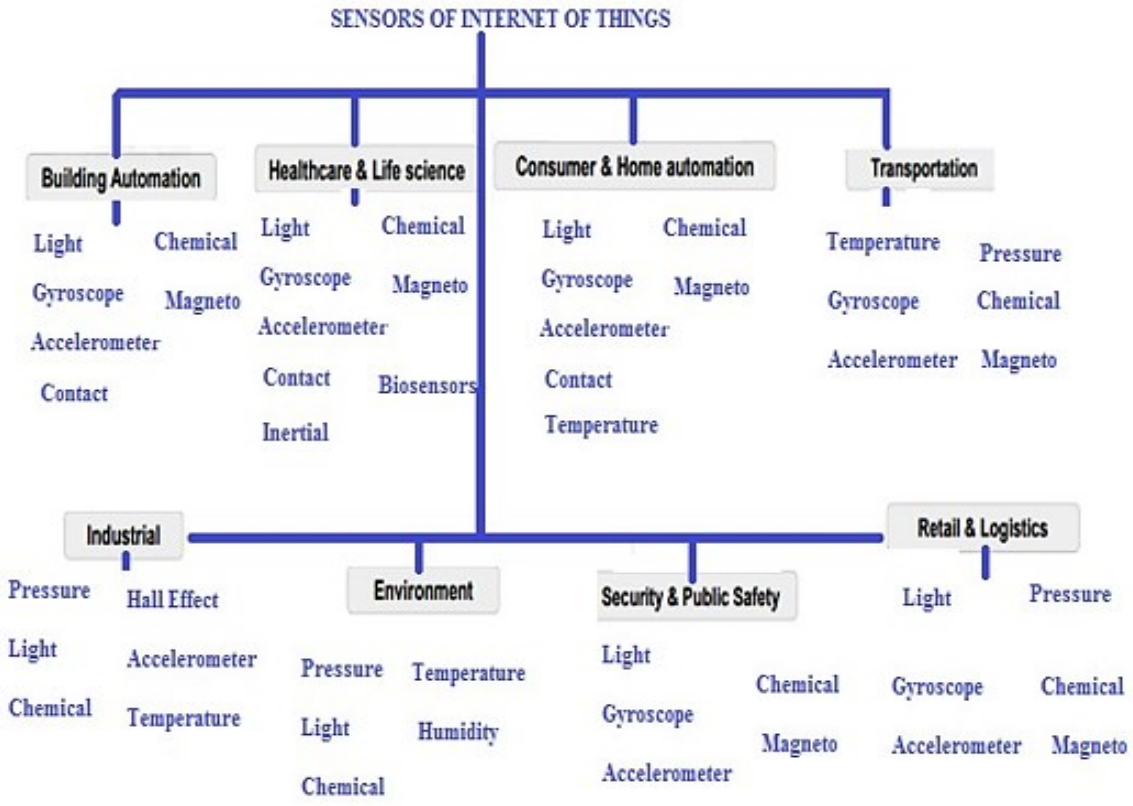

Figure-1 Types of Sensors

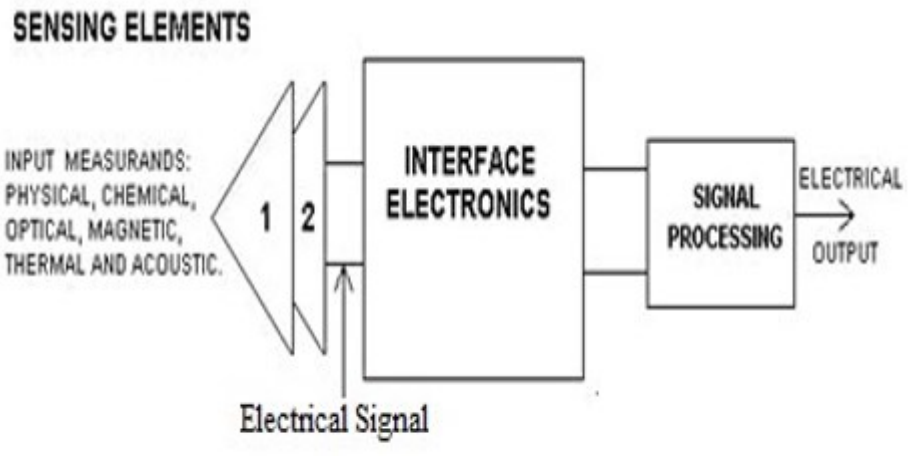

Fig.2 -Sensing elements and corresponding electrical signal

e- Journal
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Temperature sensors

These are one of the common utilizing sensors that measure the temperature or warmth of a given medium. These sensors utilizes various methods for decide and evaluate the temperature. Some of the Temperature sensors required a physical contact with the object while others not require contact as they can distinguish fluid or gases that discharge brilliant vitality like emitting radiant energy like spike in heat .Highly touchy semiconductors accessible in Market, which are sufficiently skilled to show slight variety in temperature [9,10]

Proximity sensors

Proximity sensors are the best to identify any sort of movement. They are widely using in applications such as security, safety, or efficiency. They are generally utilizing as , for example, security, wellbeing, or productivity. These sensors are utilized to find out Pets ,Insects, Rats or any animal movement in agricultural field so it can utilize effectively in smart agriculture management. Closeness sensors utilizes electromagnetic radiation like radar signs to recognize movement or habitation. Proximity sensors have best use in numerous types industry [10,11]. The retailers utilize closeness sensors to discover region of the clients once they are close to their premises by sending them a few offers on their IoT gadgets. It additionally can be utilized as a part of stopping frameworks, exhibition halls, airplane terminals, and so forth.

Pressure sensors

Pressure sensors are utilized for estimating weight of a gas or fluid. Weight sensors changing over the physical power into an electrical signal. They are additionally can be successfully utilized for estimating different factors like speed and height or comparable circumstance somehow. Indicators and weight checks are the normal utilizing weight sensors utilized for IoT framework. Indicators are useful in climate estimating as it can give exact estimation of encompassing air. Weight checks are for the most part utilized as a part of mechanical destinations as it is useful for the monitoring of weight in shut environments. Pressure sensors are extreme answer for IoT gadgets as it can be utilized for different territories, for example, touch screen gadgets, bio medicinal gadgets, car systems and fabricating industry .Micro weight sensors are kind of little size sensors

e- Journal
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for the estimation of weight. The principal small scale sensor was produced and utilized by industry preservative pressure sensors.

Optical Sensors

Optic detecting innovation is utilized to distinguish electromagnetic energies like light.It use idea of the photoelectric impact, says that there will be a launch of electrons, when a contrarily charged plate of some proper light-delicate material, is strike by a light emission. The electrons would then be able to be made to stream as a current from the plate nourish as a flag. The greatness of the electric current delivered is specifically corresponding to the light force or number of photons [9,10]. They can transmit, get, and change over light vitality into electrical flag. The fiber optic sensor IoT interface is associated with web and can collects various data for checking diverse parameters .These optical sensors generally use in various sorts advanced cameras which go about as one of the major physical gadgets of an IoT framework.. As they are uninvolved to all types of electrical interfaces, they are considered as the much adored sensors for IoT. Optical sensors are useful for vitality, social insurance, aviation, chemicals, natural IoT frameworks. Optical sensors can be perfect for conditions, for example, oil refineries, mining activities, pharmaceutical organizations, and compound enterprises because of its norisk segments[20]

Fiber optic sensors

Most remote detecting frameworks are intended to quantify photons. The indicator is most basic segment in any optical detecting framework. It use idea of the photoelectric impact, says that there will be a launch of electrons, when a contrarily charged plate of some suitable light-delicate material, is strike by a light emission. The electrons would then be able to be made to stream as a current from the plate bolster as a flag. The greatness of the electric current created is specifically relative to the light power or number of photons. The dynamic vitality of the discharged photoelectrons shifts with recurrence of the episode radiation. Be that as it may, distinctive materials has a limit wavelength at which the wonder begins and a more drawn out wavelength at which it ends.[13] . The previous two decades have seen a developing enthusiasm for the field of fiber-optic sensors. This pattern made by the advances made in the related fields like opto hardware and optical flag preparing and the far reaching utilization of optical fiber

e- Journal
ISSN NO. 2456-9828

specialized gadgets in the media transmission industry caused decrease in optical fiber sensor cost. So the optical fiber sensors have been produced for an assortment of utilizations in industry, solution, guard and research [14].Optical fiber sensor framework comprises of optical source, detecting component and optical locator . Data about the measurand is predominantly passed on in all optical fiber sensors by a difference in either polarization, stage, recurrence, power or can be mix of the above. The measurand like temperature, dislodging, or strain, and so forth can adjusts at least one optical parameters of the light, for example, power, stage, and adequacy. A returning fiber controls counter proliferating light to an optical identifier. This is then flag handled to give the estimation of the measurand

Humidity sensor

Humidity is the nearness of water in air. The measure of water vapor in air can influence human livings and numerous assembling forms. The nearness of water vapor likewise impacts different physical, concoction, and natural exercises and its estimation in enterprises is basic since it might influence the quality and cost of the item, the wellbeing and security of the staff. So humidity detecting is imperative in the control frameworks for modern procedures and human livings [8]. Controlling or checking of moistness is of imperative in numerous industrial, agriculture and residential applications. In semiconductor producing process, the moistness or dampness levels should be appropriately controlled and checked while wafer preparing. In medical science humidity control is required for respiratory supporting framework, sterilizers, hatcheries, pharmaceutical preparing and numerous other organic items. humidity sensor is additionally important in compound gas sanitization, dryers, broilers, paper, material creation and nourishment preparing industry. In horticulture estimation of mugginess is essential for plant insurance, such as dew control, soil dampness testing and checking. Residential applications requires humidity control for living condition in structures and for microwave stoves, and so on. So moistness sensors are utilized to give basic administrations in Agriculture field management.

Accelerometer and gyroscope

Accelerometer is utilized to distinguish vibration, tilt and straight speeding up. It is utilized for execution of pedometer, leveling,

e- Journal
ISSN NO. 2456-9828

vibration alert, anti-burglary and that's only the tip of the iceberg. Whirligig is utilized to gauge rakish speed. Whirligig is for the most part utilized as a part of 3D mouse, games and competitor preparing [9].It has been generally utilizing for identifying any tilt in the position in the field, for example, Robotics and Industrial mechanization. It can be used in Agriculture robots that supports the smart agriculture management.

Airflow Sensors

Air flow sensors in Agriculture field ensures the flow of air and eventually balances the amount of CO2,O2etc in Green House. Agricultural Weather Stations can measure soil air penetrability. Estimations can be made at particular areas or powerfully while in movement. The coveted yield is the weight required to push a foreordained measure of air into the ground at an endorsed profundity.

Choosing a sensor

Factors that has to be considered when choosing a sensor [9,10]

Accuracy - The statistical variation from the exact reading.

Calibration - Required for most measuring systems since their readings will change over time.

Cost of the sensor

Environmental - Sensors typically have temperature and/or humidity limits.

Range - Limits of measurement of the sensor.

Sensors application in agriculture

Here are the various ways that accurately use above explained sensors in Smart agriculture management for cultivating crops:

Yield Monitoring frameworks are set on edit collecting vehicles, for example, consolidates and corn reapers. They give a product weight yield by time, separation, or GPS area estimated and recorded to inside 30cm.

Yield Mapping utilizes spatial organize information from GPS sensors mounted on reaping hardware. Yield observing information is joined with the directions to make yield maps. Variable Rate Fertilizer application apparatuses utilize yield maps and maybe optical overviews of plant wellbeing controlled by hue to control granular, fluid, and vaporous manure materials. Variable rate controllers can either

e- Journal
ISSN NO. 2456-9828

be physically controlled or naturally controlled utilizing an on-board PC guided by genuine GPS area.

Weed Mapping presently utilizes administrator translation and contribution to produce maps by rapidly denoting the area with a GPS recipient and data logger. The weed events would then be able to be covered with yield maps, manure maps, and splash maps. As visual acknowledgment frameworks enhance, the manual section will soon be supplanted via robotized, visual frameworks mounted to working gear[18].

Variable Spraying controllers turn herbicide shower blasts on and off, and redo the sum (and mix) of the splash connected. When weed areas are distinguished and mapped, the volume and blend of the splash can be resolved.

Topography and Boundaries can be recorded utilizing high-accuracy GPS, which takes into account an extremely exact topographic portrayal to be made of any field. These accuracy maps are helpful when translating yield maps and weed maps. Field limits, existing streets, and wetlands can be precisely situated to help in cultivate arranging.

Salinity Mapping is finished with a saltiness meter on a sled towed crosswise over fields influenced by saltiness. Saltiness mapping translates new issues and additionally change in saltiness after some time.

Guidance Systems can precisely position a moving vehicle inside 30cm or less utilizing GPS. Direction frameworks swap regular hardware for splashing or seeding. Self-ruling vehicles are at present a work in progress and will probably be put into utilization in the exact not so distant future.

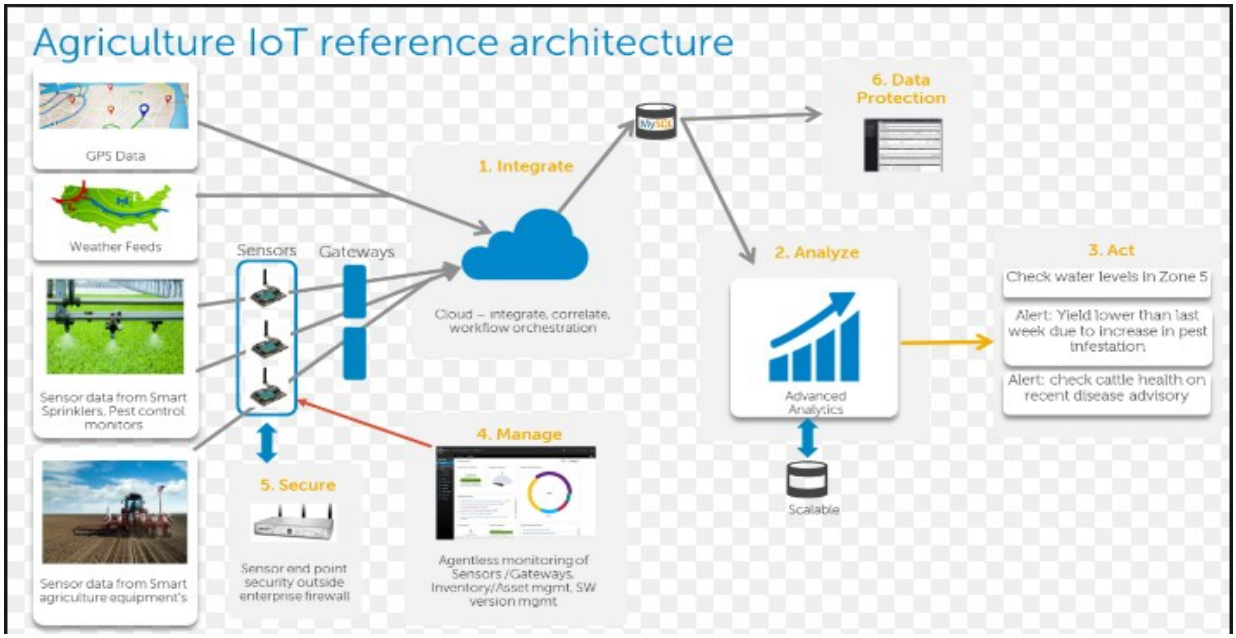
SL No.	Sensors	Application
1	Air Pollution	Monitoring of CO2or CO emissions of factories , Vehicles and toxic gases generated in farms.
2	Forest Fire Detection	Monitoring of combustion gases and fire conditions in Agriculture farms near to Forest areas

e- Journal
ISSN NO. 2456-9828

3	Farmer Care	Vital health signs monitoring during working in field
4	Structural Health	Monitoring of vibrations and other material conditions in buildings ,bridges and other monuments in fields
5	Agricultural Engineering	Monitoring soil moisture and Humidity and Temperature for healthy vegetation
6	Offspring Care	Control of growing conditions of the offspring in animal farms for its better survival and health
7	Water Quality	Analysis of water quality and suitability in rivers and the sea for fauna and checking for drinkable
8	Quality of Shipment Conditions	Monitoring of vibrations ,Cracks, strokes, containers opening in supply chain maintenance
9	Waste Management	For better waste management
10	Smartphones Detection	Detection of smartphones or any devices and in general any device which works with Wi-Fi or Bluetooth interfaces etc.
11	Perimeter Access Control	Access control for restricted areas and detection of people in non-authorized areas
12	Electromagnetic Levels	Measurement of the energy radiated by Radio stations or Cell towers and Wi-Fi routes
13	Smart Parking	Monitoring of vehicle parking spaces availability in the field and congestion avoidance
14	Radiation Levels	Measurement and analysis of radiation levels in nuclear power stations surroundings to generate any leakage alerts
15	Water Leakages	Detection of liquid presence roads, Tanks, Pipe leak and canal overflow etc.

Table 1.0 Some suggestions of Sensors based on the analysis and testing in smart agricultural management

Conclusion and Future work: The IoT sensors can be successfully utilized for Agriculture management effectively and so forth administration in Smart agriculture areas Sensor innovation will discover numerous more application in Smart agriculture administration in future. So this territory requires additionally inquire about in IoT sensors and availability. Sensors are one of the rising territories of material science, hardware and biotechnologies, and is the one that has most incredibly abused by the developments in the individual networks



Here we have clearly analyzed in detail about various type of sensors available for smart agriculture. In future, we want to study by implementing these type of IOT sensors for smart agricultural management in crop cultivation for the arid environment in Mysurudistrict

e- Journal
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ANURAG KASHYAP FILMS: A CASE STUDY

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Abstract: *Anurag Kashyap is a prominent offbeat Bollywood filmmaker and screenwriter who have received acclaim for his gritty and realistic films. He is considered to be the wonder kid of modern new wave Hindi cinema. The study deals with the deconstruction and in-depth content analysis of all his 8 films. The deconstruction is in terms of various aspects such as the characterization, themes, the dominant traits and other technical aspects. The researcher also aims to determine the similar pattern or the blue print followed by all his films and look at them in a different and unique perspective.*

Keywords: *Bollywood, New wave cinema, Characterisation, Auteur.*

Introduction: Anurag Kashyap is often termed as an auteur.Auteur is a French word which translated in English means 'author', the creator of the work.The 'Auteur Theory' suggests that there is one prime force that leads to the creation of the film and that individual guides all the processes of filmmaking. (madaboutmoviez.com, 2012)The 'Auteur Theory' was born out of the French New Wave movement in cinema pioneered by the critic and filmmaker Francoise Truffaut which was actually intended to be a protest to free the global medium of cinema from its old and traditional conventions, consequently asking for the liberation for the film maker to express himself beyond the reliance and dependence on the literature and it also demanded due respect for the director who is to be looked as an independent and self-reliant artist in the area and field of cinema enabling the director to invent a body of work, similar to any other ordinary artist, focussed on themes and creating his own distinctive style. Kashyap has created a new style which is one of a kind and which itself is a new genre. Kashyap's films are always involved in controversies as most of his films are so real and they explore the dark depths of the human conscious and it also portray the ruthless and cruel character

and behaviour of the contemporary society or world.

The genre of Kashyap films varies from romantic drama to neo- noir psychological thrillers. But the traits in the films are following the same pattern. The nine films he has made have a new and distinctive style on his own.

All the films are peculiar and distinct. The most notable one will be the remake of the classic Bengali novel 'Devdas' by Sarat Chandra Chattopadhyay published in 1917. This movie has been chosen as it successfully explores the space between the edges of commercial and parallel cinema. It fixes, like other films human subject the film mainly constitutes the state apparatuses of extreme capitalism which provided him or her with a place in relations of the production. The film explores the human emotions such as guilt, jealousy and others in a new and distinctive style through a way which has not been undertaken by any other film maker.

Kashyap also enthrals and also disturbs the audience by showcasing the intimidating and demeaning nature of the contemporary society without any mercy. The audience are struck with such an impact that they will have a whole new perception and clarity about the matters or entities portrayed in the film. He is said to be influenced by different film forms and the narrative style of some of his films also have similarity between western film makers such as Quentin Tarantino and Martin Scorcese. The films selected are The Paanch (2003), Black Friday (2007), Gulaal(2009), No smoking (2007) , Dev D (2009), Gangs of Wasseypur part 1 (2012) and part 2 (2012) and that girl in yellow boots (2011).

Review of Literature

Dinesh Bhugra, and Susham Gupta in their book "psychoanalysis and the Hindi cinema" says "Psychoanalysis raises notions of individual's growth and development, and defence mechanisms are used to suppress anxiety and stress. Portrayal of psychoanalysis in modern Hindi cinema is rare. Psychoanalysis can determine the relationships between individuals and personalities." (Gupta, 2008)

In another book by Ravinder Kaur "Viewing the West through Bollywood: A celluloid Occident in the making" says that "The films sport a fantasy-like, rich look, trendy locations and designer clothes worn by young men and women. The Hindi films are now placed in the realm of fast-changing

contemporary India with its new market-friendly economy, a globalised and upwardly mobile middle class, a vast diaspora that constantly searches for authentic Indian values, and a huge, exportable, techno-savvy workforce that thrives on growing western pop-dominated cultural forms such as Bhangra/Indi pop-music and Hinglish theatre. (Mishra, 2002) The search for authentic Indian values, however unintentionally, reveals the long-held images of the West and the eventual making of a celluloid Occident." (Kaur, 2002)

In a paper by M. Madhava Prasad "Realism and fantasy in representations of metropolitan life in Indian Cinema" says that "Bollywood is dealing with the representations of metropolitan life, and it is appropriate that we should focus at the outset, on what appears to be an intimate relation between the city and the logic of fictional representation." (Prasad)

In his book' John David Slocum says that violence has been portrayed in different countries in different ways and most of them included political violence. He talks about the cinematic representation of violence and they have tended to represent violence as pathological. (Slocum, 2005)

In the article ' Sensuality , sexuality and belonging: Representations of the Anglo Indian and the western women in Hindi Cinema', Geetanjali Gangoli says that the Anglo Asian women represented in Hindi films were seen as liminal as compared to Indian women. The literary projections of Anglo Indian women saw a similar pattern. They are projected as promiscuous, sexually active, disrupting the colonial agenda or as pathetic victims of decrement and boredom.

Methodology

The researcher is doing qualitative analysis. The researcher has analysed eight different films of Anurag Kashyap for the purpose of deconstruction and content analysis. The researcher analyses every dominant aspects of the film and the different crucial components of the film by comparing the films of the director and extract the similarities and dissimilarities among all the films. The researcher has used the coding sheet to bring out the common elements of the films or the parameters to study and analyse the films. The analysis will be based on the parameters

- Dominant traits of the male and female characteristic
- Running time

- Genre
- Psychological aspects of thefilm
- Overall setting of the story
- Dominant traits of the film
- Theme and genre of the film

Rationale of the Study

The study intends to find out the common strain or the basic pattern of Anurag kashyap films by deconstructing the films in different aspects such as characterization, background of the story, execution, and treatment etc. The study also aims to find out the existence of a common 'blue print' in his way of film-making.

Analysis and findings

The eight films chosen for the research are Paanch (2003), Black Friday (2007), Gulaal(2009), No smoking(2007) , Dev D (2009), Gangs of Wasseypur part 1 (2012) and part 2 (2012) and that girl in yellow boots (2011).

Running Time

The eight films are all above120 minutes of running time which follows the same track of the all other Indian films.

Genre

The genre of the films are predominantly drama and but the sub-genre vary greatly from romance,action,crime, thriller, political thriller and psychological thriller. All the eight films has the dramatic element as the main genre mainly for its dramatization effect.7 out of 8 films ie apart from Dev D are thrillers. They have a gripping story line which has an intense effect on the audience. The characters also go through different harsh and extreme phases. They face many obstacles and psychological trauma. Even though there are different genres the traits in the films are following a similar pattern evidently.

Background of the story

The settings and background of the film is very crucial for any story or a narrative. The same is applicable for Anurag Kashyap films. He has beautifully narrated the incidents and happenings of different locales or areas with sufficient intensity and impact. The dark and the cruel atmosphere of the modern contemporary society has been efficiently portrayed in the films.2 of the 8 films that is the two parts of Gangs of Wasseypur has been shot entirely in the rural area of Wasseypur and the remaining

of the films are set in the backdrop of Urban locales especially the city of Mumbai which is the heart of Indian economy and the hub of different cultures and diversities. Only one of the 8 films (DEV D) is shot overseas that too around 10% of the entire film.

Characterization

The films of Anurag Kashyap follow a common trait in terms of characterizationas the lead characters are having the similar traits and the emotional and psychological trauma they go through is also similar processes. The male characters especially the lead characters have similar traits. The lead characters of Gangs of Wasseypur,Paanch ,Gulaal and No Smoking They all have common traits.

In the films Gulaal, Paanch, No smoking, Gangs of Wasseypur the lead characters all have a similar traitsas they are rich, spoilt, ruthless and arrogant and violent attitudes. On the other side the female characters also have similar attitudes and character traits. The dominant traits of the female character are manipulative,beautiful, seductive and ruthless.There are also traits of femme fatale which is a crucial element of film – noir.

On the whole the characterization follows a same blue print which is evident from the similar and common traits of male and female leads.

Table No.1-*Dominant Male Characteristics*

Characters	Traits
Ransa (Gulaal)	Spoilt,Rich,Carefree,
Dev (DEV D)	Rich,Spoilt, Carefree,
Faizal (GOW)	Authoritative, Violent
K (No Smoking)	Arrogant,Bold,Rich
Luke (Paanch)	Arrogant,Bold,Violent
TigerMamon (Black Friday)	Authoritative,Violent,

Table No.2- *Dominant Female Characteristics*

e- Journal
ISSN NO. 2456-9828

Female Characters	Traits
Chanda(DEV D)	Seductive, Manipulative,
Kiran (Gulaal)	Seductive, Manipulative,
Shiuli(Paanch)	Seductive, Manipulative
Durga(GOW)	Seductive, Manipulative
Ruth (That Girl in yellow boots)	Bold , Helpless

Traits

The films have a number of recurring traits which are dominant and crucial for the proceeding for the story. In all his films there is a constant play between the human emotions and other psychological feelings they go through in different situations and consequences. The emotions are so stark that the characters feel so real and which also says that the characters are actually facing a problem. The characters in the films have emotional outbursts.The emotions anger and frustration are dominant and the characters are so much controlled by these emotions that they end up doing undesirable things which tend to be hazardous for both the male and female characters. The emotion happiness is not at all present in the films whereas grief also plays a crucial role in the fate of the characters along with the other dominant emotions. This is evident from the films such as Gulaal, DevD and that girl in yellow boots as the lead characters go through a number of relationship crises and other obstacles which tends to test their emotional stabilities.

Psychological Abnormalities

The characters also show some psychological abnormalities. In No Smoking the character K played by John Abraham shows extreme Narcissism which is evident from the scenes which is similar to the original Narcissus who admires his own reflection and takes great care to preserve his own good looks. The other major abnormality which is dominant is the ant-social personality disorder which can be noticed in all the major characters in most of the movies especially the movies such as Gulaal, both the parts of Gangs of Wasseypur, Paanch and Black Friday.This are mainly evident from the incidents they

e- Journal
ISSN NO. 2456-9828

get into tend the hideous and cruel things they do which are clearly unacceptable by the society.

Substance abuse

The other major trait of the films are the substance abuse which are very much recurring as the lead main characters always indulge in substance abuse which vary from alcohol to narcotic drugs. Most of his films portray substance abuse and the lead characters are having either extreme addiction or they always use the intoxicants. 'Dev D' is the film which portrays the extensive alcohol addiction of the lead character Dev due to his emotional breakdown which was caused by the relationship crises. The film also portrays the usage of narcotic drugs in some part of the film.

The film 'No Smoking' entirely focuses on the smoking addiction and how the lead character is affected by the consequences caused by the addiction and the cat and mouse game he himself gets entrapped into. The film 'Paanch' also portrays a number of scenes in which shows the substance addiction which forced them to do crimes and other anti-social activities especially the protagonist Luke which forces him to fall into many undesired situations and consequently moves the story forward. The researcher as also find out the inter relation between the crimes and the substance abuse.

Treatment and execution

The overall mood of all the films is dark. Most of the lead characters go through a series of emotional outbursts and these outbursts result in various consequences which gives rise to a number of conflicts. The films can also be said as the metaphor for the dark and disturbing mind-sets of the characters in the film. The audience can feel the tension in the air as the characters go through different situations and consequences.

In 'No smoking' the neo realistic atmosphere is evident all over with the unusual settings and the colouring of the film also enhances the overall impact of the film on the audience and the character 'K's mind-set also has been vividly portrayed in the film through the consequence and situation. Likewise the films show the psychological tensions and pressure the characters go through.

Violent Content

The researcher also found out the extensive portrayal of violence in the films. All the films show extensive verbal abuse between the characters and the high profanity is

e- Journal
ISSN NO. 2456-9828

common in all the films. The profane words differ in dialects of the respective areas. The profane words are like the integral part of a normal conversation and The words are of Hindi origin and they vary according to the

Physical violence is also very significant in most of his films. The'Gangs of Wasseypur' films entirely rely upon physical violence through arms such as guns, pistols and other variants of weapons. The blood and gore is also very apparent in those films. The first film of Anurag Kashyap, 'Paanch' has intense physical violence where the protagonist himself indulges into criminal activities such as murder and hand assaults. Blood and gore is also apparent in this film. Similarly the film 'Gulaal' also has a number of physical violence and gore.Which shows the common trait of violence is present in most of his films.'No smoking' too shows extreme gore wherein the finger of one of the characters has been cut off. In films 'Gangs of Wasseypur', Black Friday, 'Paanch' and 'Gulaal' the innate human violence and the human atrocities are vividly portrayed and shown.

There are a number of films in which there is a dominant trait of political violence where the power is misused and it is reflected through violence and other means of aggression. The movies also reflect how politics cannot survive without violence and aggression. The significance of violence is that it is vital in all aspects as the films which vary from different genres such from romance to political thriller there is a significant amount of violence in the films portray how violence is dominant in the society now.

The human negativities such as manipulation,betrayal,greed and violence are portrayed in a stark manner which actually has an impact on the audience. Kashyap has also tried to show the consequences of the conflict areas as in all the films' lead characters get consumed by the ill effects or the consequences of the negativities and find their own doom. The plot of the films majorly involves these conflicts which actually pushes the story forward. The corruption of the characters (political and non-political) also has a great impact on the story. The films also depict the misuse of authority and power and use them for their own selfish purposes.

The female characters are the main play a major role in the manipulation and other negativities. In the film 'Gulaal' there are the character Kiran manipulates the protagonist Dilip Singh and other characters

e- Journal
ISSN NO. 2456-9828

for her own selfish purposes. They use their seductive nature to enhance their manipulative abilities. The films are dark moral stories and they convey a message in the end.The violence of the films are too brutal and most of the films are actually true life incidents which have marked some impact on the history. (Booth, 1995)

The psychological aspects of the film are very crucial as there are a number of psychological elements are dominant in the films and they have influence on the characters.The researcher has found out a pattern followed by Anurag Kashyap in making films.

Conclusion

As per the analysis and findings the researcher has found out that all the eight films of Anurag Kashyap have recurring themes and they portray different emotional variations of the characters portrayed in the film. The researcher has also found that the films have tried to convey different messages or implications to the audience.

They have tried to cater to the specific needs of the audience which applies to the uses and gratification theory.The films take the audience to a whole new level of cinematic experience which disturbs the very perception and the basic understanding of the audience.The researcher has analysed all the films follow a same pattern and it has a unique style pertained to the director Anurag Kashyap.

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Computer Security Folder with Image Processing

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Abstract: *Folder security protection is one of most important system that can save and protect your data. Folder security is the practice of preventing unauthorized access, use, disclosure, disruption, modification, inspection, recording or destruction of information , information security is the balanced protection of the Confidentiality, Integrity and Availability of data . folder security its allow to protect your sensitive information from unauthorized users using folder password and image comparison and detection (image processing) that allow to enhance the security of the system , when user is pass the password form it will display another form that check his/her image is recognized already if it match will display the files but if it not match it will capture the image of the un authentication user and send that image to authorized user using sms and also its provide locking, encryption decryption, and hidden the files. you will provide the method that allow to encrypt and decrypt the data , files , images and documents that allow to protect your data from un authorized users, this encrypt method we use AES algorithm that its strong and advanced other algorithm. The Advanced Encryption Standard, or AES, is a symmetric block cipher to protect classified information and is implemented in software and hardware throughout the world to encrypt sensitive data. The process of decryption of an AES cipher text is similar to the encryption process in the reverse order.*

Keywords: *Cryptography, Face Reorganization, Face Compression and Detection, Security*

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Introduction:

Secure Folders provides protection for your sensitive files and documents by hiding them or locking them, and creating password-only access authorized user. No matter what you're trying to keep safe, this system gives you the tools to do it the way you want through its intuitive and streamlined interface and provide a good security system for computer folders. This proposed system provides various features like authorized face register or save , receive notification about un authorized access your folder via message, and keeping the un authorized image captured encryption decryption method and data hiding methods.

Image processing is a method to convert an image into digital form and perform some operations on it, in order to get an enhanced image or to extract some useful information from it.

This paper proposes a System to provide a security for folders. After passing the password will provide next form of image compression and image detection this image compression will need to detect the original image if it match the images you will get the file but if it's not match it will capture and recognize your face and send message to authorized user about someone tried to access your information. The face recognition is a good authentication system which makes your confidential files or folders more secured. Having the face recognition login system with the Windows computer folders ensures that no one can break into your system without you as there is no chance of stealing your log-in password. In the earlier of this decade, this was a myth for the general computer users since the use of webcams or any security camera with compute was rare.

But, from the last 2-3 years, the usage of webcam has been grown significantly. Almost every laptop or note book is now featured with an inbuilt webcam which can be used for not only communicating with your friends but also integrating the face recognition log-in system with Windows or other operating systems easily and costless. If you do not have any inbuilt webcam with your computer (Desktop PC or older laptops) you can always assemble a webcam (is not so much costly these days) with it.

Literature Review

Studies so far shows that Folder Security by using Image processing is becoming popular.

San Jose et.al [1] proposed Fingerprint Authenticated Secure Android Notes. This System is Simple used to secure notes via

e- Journal
ISSN NO. 2456-9828

Finger Print Authentication. This System can also be referred as Keyless Authentication unlike traditional way where it needed a password to enter. This System doesn't have any Registration but only the owner of the phone can access these notes as it searches for the owners print.

Findphone.cmcm.com. [2] implemented CM Security. It will ask you to set a CM Security password and you will be able to locate your phone on a map you can also lock your device to protect your privacy. If anyone tries to break into your phone and enters the incorrect password 3 or more times, the app will take a picture of the infiltrator and keep it.

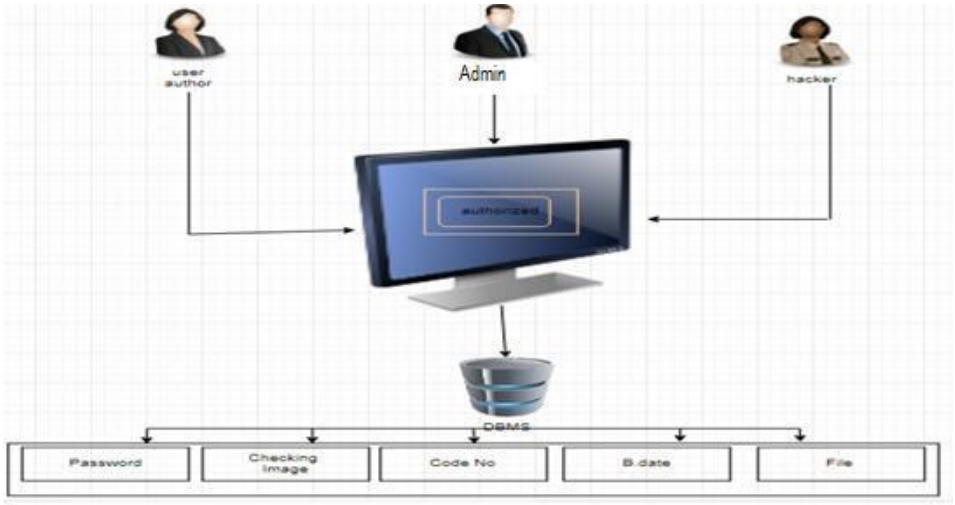
Raikoti Sharanabasappa1 et al.[3] A Unique Document Security Technique using Face Biometric Template Human face is generally viewed as most flexible model when it comes to the field of biometric applications. A unique binary string generated out of facial features of a person is called a template. This template is used in several applications like network security, public key cryptography and so on. A framework needs users to register with the system along with their face instances. The instances are used for training samples. Once a user selects a folder for encryption, all the files of the folders are encrypted with the templates generated from users face data. A decryption request needs to be authenticated through the face data and the template generated at the time of decryption is used for decrypting the encrypted files.

Ms. Achla Devi1 [4]: Implemented an Iris Based Security System Using Matlab Based Image Processing**,** Biometrics is technology of identifying human subjects by means of measuring & analyzing more than one intrinsic behavioral / physical traits. Iris recognition is method of biometric to be identify its use mathematical recognition techniques on video images of one or both of irises of an individual eye, whose difficult random patterns are unique, stable, & could be seen from some distance.

Mr. Saurabh Mitra2 [5] proposed a Secure Data Hiding Technique Using Video Steganography Emergence of internet has made it possible to transfer the data from one place to another place rapidly and accurately. This data when goes through the internet may become a victim of the hackers who can steal, modify and misuse the information. Therefore it is necessary to transfer the data

e- Journal
ISSN NO. 2456-9828

with utmost security. Steganography is one such solution to this problem.



The new system provides to protection for your sensitive information and documents by locking of the faces, and provide to capture face from unauthorized user access . No matter what you're trying to keep safe, this app gives you the tools to manage your computer folder efficiency and integrity. In this system using simple service to take photo of when unauthorized user trying to access my sensitive information, the are two cases might take either

password can't pass the password phase and web camera will be turned on and capture the face of the unauthorized user that tried to access your files, and it will send you the text message about someone tried to access your information

[8] When the user insert the correct password will pass next face of the image compression and detection of the faces if it detect the face user will get the files and also user can lock , unlock, hidden, un hidden ,encrypt and decrypt the files, but if the user insert wrong

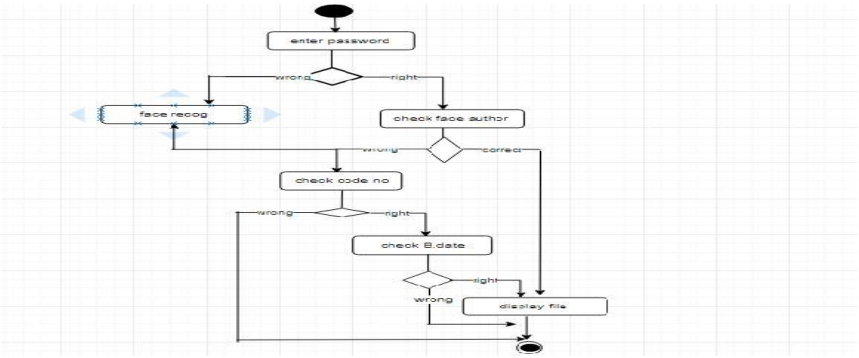
- When the user insert the correct password and pass this phase it will provide another phase of image compression and detection that allow to detect the faces if the face is registered already, but if the user is not registered his face already he/she will get another forms that check the code no and birth date of the user if it match

e- Journal
ISSN NO. 2456-9828

the birth date and code no the user will get the files but the web camera will capture his face and store.

For this activity you will provide the high and strong security because we are used for the face reorganization and detection that can allow your system can not open unless your face only , in the password security can break and guess but in this method no one can break and guess your face unless for you only.

And this systems will provide a lot of services that is allow to lock your folder using your password and your face, and also you can unlock your information and hidden , un hidden , encryption and decryption your files for you only ,no one can open your files because its require your face except some user that provide permission for you , for those they will get extra security for checking the code no and birth date. Also, provide SMS services that allow to notification about accessing your information from un authorized user and also it will capture the face of the un authorized user that can allow to know who accessed your files.



Conclusion and Future Work

This system provide high security protection using the password and image processing that it allow the user to keep his information safely and reliability , if the unauthorized user pass the loging form he/she cannot pass the image detection form because its required image of the user authentication

This application provides various features like an authorized face recognition, receive notification about an authorized access your folder via message, and keeping the authorized image captured and encryption decryption method and data hiding methods.

e- Journal
ISSN NO. 2456-9828

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Philo Multidisciplinary Journal
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e- Journal
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A Call to the Joy of living, (*Joie de vivre)*

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Abstract

The objective of this write-up is to explore from Literature the secret to the joy of living. In the words of Mathew Arnold, the study of Literature, more so English literature has the universality of its appeal to man as man and offers consolation and stay in life. Poems, stories, dramas and fiction help us work through the challenges we face from every day irritations to loneliness, heartache and death. Literature is as vital to our lives as food and shelter. It is a call to make our life happy and to drink it to its lees. The real,perpetual, undying and eternal joy is assured for all the just only in the life after life, although one can already have the taste of it in this mundane life itself. This is the tenacious conviction of a few thinkers and poets and it is imperative for us to unpack and unfold their thoughts and feelings so that we can also live a life of joy (la joie de vivre).

Keywords: *joie de vivre – the joy of living; carpe diem – Seize the day or pluck the day; parousiac joy – the supreme spiritual or eternal or perennial joy in life after life.*

Introduction: The topic sentence is an invitation to man as a man to a life of joy.Immediately the question arises to what kind of joy we are called? Is it a physical or sensual joy? Or Is it an intellectual joy? Or is it a spiritual joy, the supreme bliss, the undying eternal joy beyond the temporal? These are the questions that come uppermost to our minds.Let us approach this string of questions in a literary perspective, for the simple reason that great poets enjoy more sensibility than most of us and they manifest the truth remarkably of what they have felt profoundly in their head and heart. For an example, you and I have seen very often the rainbow. And it does not sensitize us as it does with men of sensibility. When Wordsworth saw it, he shouted out of joy:

My heart leaps up when I behold
A rainbow in the sky:
So was it when my life began,
So is it now I am a man,
So be it when I grow old.
Or let me die!

e- Journal
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The child is the father of the man
And I could wish my days
Bound each to each by natural piety

John Keats expressed his joy while seeing beauty embedded in all we behold and believe: A thing of beauty is a joy for ever. G.M. Hopkins was a Jesuit priest and poet. When he saw a falcon, soaring in the sky in the morning, he bursts out: My heart in hiding stirred for a bird. He calls it the windhover. "I caught this morning morning's minion, kingdom of daylight's dauphin, dapple-dawn-drawn Falcon in his riding, the achieve of, the mastery of, the mystery of the thing, brute beauty and valour and act, pride and plume: O my chevalier! He then slips into a deep meditation of the beauty of Christ's passion and death on the cross, which is more beautiful, a billion times told lovelier and more dangerous because of the gash gold-vermillion of his precious blood." Most of us have read or heard several times the first miracle of Christ at the wedding party in Cana in Galilee. But it does not stir us. When young Lord Byron in his class was asked by the teacher to write a composition on the first miracle of Jesus, he did not write pages after pages as expected by the teacher. He just wrote a single line: 'The water saw its master and blushed' to the great intellectual joy of the teacher.

The joy of 'Carpe Diem': The Roman poet Horace in 65 B.C with his Epicurean background declared: "while we're talking, envious time is fleeing: "Seize the day", put no trust in the future".**1** His famous saying 'Carpe diem', "Seize the day", "Pluck the Day" has its repercussions and reverberations in the life of priests, religious and the lay persons even to this day. People repeat the words: Enjoy yourself while you have the chance. Enjoy the pleasures of the moment without any concern for the future. In his poem, "Mignonne, allonsvoirsi la rose", Pierre Ronsard (1524-1585) advises a young girl that her age is like a beautiful rose that has bloomed in the morning. Before it gets withered by the cruel sun, she should pluck and enjoy it; otherwise, old age will soon dull and dim, sully, tarnish and ruin her beauty. Similarly in his poem 'To the Virgins, to Make Much Time', Robert Herrick advises us to gather the moments like the flowers:

e- Journal
ISSN NO. 2456-9828

Gather ye rosebuds while ye may,
Old Time is still a-flying;
And this same flower that smiles today
Tomorrow will be dying.

Andrew Marvell in his poem "To his Coy Mistress" says

But at my back I always hear
Time's winged chariot hurrying near;
Now let us sport us while we may,
And now, like amorous birds of prey,
Rather at once our time devour
Than languish in his slow-chapped power.

This **'carpe diem'** philosophy continues to haunt the present generation because we tend to seek our joy in **www** (wealth, wine and women). **Firstly** most people are mad after money, wealth, pelf and power. As Ben Jonson puts in his play 'Volpone', we seek joy in the accumulation and possession of the shrine of gold and money which is nothing but the bane of bliss. That is why D.H. Lawrence said: 'Money is our madness, our vast and collective madness'. You will all agree with me that the dirty money and wealth can never give us a permanent joy of life. With money, one can procure a cart load of books, big libraries and bookstalls. But can one get knowledge with money? With money one can buy tons of tablets. But can one buy good health? One can buy and possess the whole world, but one cannot buy heaven.

Secondly most people these days find real joy and happiness in drinking wine and alcohol. Even the ancients believed that when the wine is in, the wit is out. And to corroborate this statement, the reputed French poet Charles Baudelaire (1821 – 1867) rightly said: "You have to be always drunk. That's all there is to it.., it's the only way. So as not to feel the horrible burden of time that breaks you to earth, you have to be continually drunk. But on what?Wine, poetry or virtue, as you wish. But be drunk!" **2**

I am reminded of the Victorian poet Alfred Lord Tennyson who wants us to enjoy by drinking in a different way. In "Ulysses" he makes the speaker state bluntly and

e- Journal
ISSN NO. 2456-9828

baldly: "I cannot rest from travel. I will drink life to the lees." **3** He intends to drain the whole wine glass of life, bottoms up, and swallow even the grainy dregs and sediments. Similarly in the play, "The Admirable Crichton", James Barrie makes one of the characters say: "Life is like a cup of tea; the more heartily we drink, the sooner we reach the dregs". Life must be enjoyed to its last drop, to the maximum possible extent with its implications and ramifications.

Thirdly we are baffled at the sad situation of the pursuit of man on the carnal and sexual joy, libidinal and erotic pleasure as stipulated by Sigmund Fraud. He says that people who are behaviourally abnormal are always sexually abnormal, but many people who are normal behaviourally are otherwise sexually abnormal. T. S. Eliot also blames sex, or rather its commercialization, as both the cause and the symptom of the decay of Western civilization in his famous poem *'The Waste Land'(1922)*. He says that modern man seeking after sex and wealth and neglecting his faith in God is a hollow man stuffed with straw. There is in the present world a total pell-mell, a spiritual sterility and vacuum, loss of faith and moral values, commercialization of life, and the paranoia of sexual perversion and abnormality as postulated by Sigmund Freud.

At one time sex was considered sacramental, a consummation of conjugal love and means of human development. But unfortunately in modern time, sex has become an animal urge with no moral or social commitment. It is perverted and is utilized for carnal pleasure and monetary benefits. It has therefore, become a source of degeneration and disease. It has also led to the erosion of moral values and has turned to be a hurdle in man's spiritual joy and progress. Easy sexual relationship is found among all sections of society high or low, lay or religious.Sex is the same as any other commodity. It could be bought and enjoyed without any sense of morality. The poet, Eliot calls London, unreal city just like Baudelaire called Paris unreal, because unbelievable things happen in such cities. Rape, lust, molestation and cheating and corruption prevail without any hindrance.

In '*Sailing to Byzantium,*' W. B. Yeats affirms that in the land of sexually charged youth in Ireland, it is not suitable for old people to live there. "That is no country

e- Journal
ISSN NO. 2456-9828

for old man. An aged man is a paltry thing, / A tattered coat upon a stick,"**4** because the young in one another's arms are caught in that sensual music and neglect the monuments of unaging intellect. Life over there is all physical and sensual. He longs to sail to Byzantium and live in a place of wisdom, devoid of sex, where he may once again feel at ease and devote his mind to things of beauty which is a joy for ever in Byzantium.

A number of modernist poets and writers have expressed their social alienation and the necessity to a life of joy in different terms. Therefore, **' acall to joy'** means for them not **wealth, wine and women**. To E. Forster, it means" **aneternal moment**"; James Joyce calls it "**epiphany**"; Virginia Wolf terms it "**a moment of being**" and T. S. Eliot feels it as "**a moment in and out of time**" as a possible means of salvation in the face of the meaninglessness of a spiritually and emotionally arid, modern existence. These modern writers and poets are almost reflecting what the metaphysical poet, Henry Vaughan visualized in the 17th century in his famous poem 'The World'. He expressed the real joy of life by saying so beautifully: "I saw **eternity** the other night like a great ring of pure and endless light, all calm, as it was bright" **6**.Similarly in the poem 'The Retreat', he declares: "Happy are those early days when I shined in my angel infancy….Oh! how I long to travel back and tread that ancient track.... But ah, my soul with too much stay is drunk and staggers in the way." He seeks nothing but eternal joy. It is what the theologians call 'Parousia' the effulgent light. It is undoubtedly the joy of accepting God and his teachings as revealed in the sacred scriptures. Happy is the man who has placed his trust in the Lord. The poet firmly believes that all men and women are liberated from the slavery of sin and Satan by Christ's death on the cross and the joy of resurrection and the assurance of eternal life by Christ. The paradise lost has been regained and restored to man by the suffering and death of Christ on the cross which has turned out to be the power and wisdom for the believers.

What is this perpetual, eternal life of joy promised to us and to which all of us are called? I am really fascinated by the Victorian poet Robert Browning who says: "Life is probation and the earth no goal, but a starting point of man"**5**. After the death of his wife, Elizabeth in 1861, the poet is not dismayed and frustrated but has

e- Journal
ISSN NO. 2456-9828

the hope and optimism of meeting her in the life after life. He puts the appropriate Latin title to his poem "Prospice" (Look forward). Taking death as a challenge, he makes a naked declaration: Fear death! To feel the fog in my throat! the press of the storm, the power of the night, the post of the foe, the black minute! Let death come in any form. He will confront it fully with indomitable courage, taste the whole of it, endure its pain and misery and fight to the finish the full fury of death, not like a dastard but heroes of the past. Like a true Christian, he has the optimism to fight gallantly the black minute of death, because it is only a gate way to that illuminated peaceful world where he will meet the 'soul of his soul', his wife and experience a profound joy and peace. This is the ultimate joy and promise to which all of us are called, with no discrimination.

It may be difficult for us to comprehend the eternal and parousiac joy. It is an indwelling in the triune God. It is something like a plunge in the immensity of God's life and love which is infinite and inexhaustible. God's inexhaustible riches will never be comprehensibly seen, enjoyed and loved by man. If you drop a stone on the surface of the ocean, the stone will slowly sink down but eventually its downward trend will cease, once the bottom is reached. But God being a bottomless abyss of Trinitarian life and love, man will sink ever deeper into it without ever reaching the end of the process. Man will drink in life, God's own life, and he will never be entirely satiated, for as he drinks, his capacity of reception will further expand and this newly expanded capacity will be the receptacle and repertoire of a further outpouring of divine life Eternity is not a concept an abstraction. It is a person. It is an immersion into the ever present Now of God's own love and life**7** (Bermejos). Past and future tenses are incompatible with God who is simply is in the present. "Before Abraham was, I am" (John 8:58). Nor eternity is a frozen immobility, for God is essential Life replete with love. He is the eternal present in whom we live and love mutually in a state of immortal and immense joy (Mine).

Shakespeare has put it in short and succinct expression the secret of the joy of living in three important phrases: firstly '**Perfection is all.**' Be ye perfect as the heavenly Father is perfect. Secondly '**Ripeness is all' 9**. In King Lear, Edgar says to his Father "What! In ill thoughts again, men must endure their going hence,

e- Journal
ISSN NO. 2456-9828

even as their coming hither: ripeness is all" (King Lear V, ii) and thirdly, "There is a special providence in the fall of a sparrow. If it be not now, yet it will come. "**The readiness is all**" **10.**

Finally it all depends upon our attitude to make life either blissful like heaven or horrible like hell. As Milton says: "The mind is its own place, and in itself can make a heaven of hell, a hell of heaven"**11**. Hamlet thought of the World as a prison with different cells, wards and dungeons and Denmark as one of the worst dungeons. But there is nothing either good or bad, but thinking makes it so. One must think well and work well, be righteous and upright, honest, just, candid, sincere and outspoken, because 'perfection is all', 'ripeness is all' and 'readiness is all'.

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Modernism

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***Abstract**:*

Modernism has played an important role in ushering Literature into a new era. The works be it in the form of literature, arts or architecture produced during the period reflected the thoughts, ideals, doubts and anguish which are the results of scientific, political and economic influence brought about by the advancement in science and technology. This paper aims to highlight the shift in literary works produced during Modernism and the participation of prominent figures during the period.

***Keywords**: modernism, ideals, prominent figures.*

Introduction:

The term 'modernism' is not as simple a question as getting a date or a time period and labelling everything that falls within the time frame as 'modern'. It does not specifically have an exact date as to its historical emergence with not much evidence of spirited scholarly discussion about when or how it actually began. However, its standard definition would be:

"a general term applied retrospectively to the wide range of experimental and avant-garde trends in the literature(and other arts) of the early twentieth century"

According to M.H.Abrams;

"The term 'modernism' is widely used to identify new and distinctive features in subjects, forms, concepts and styles of literature and other art in early decades of the present century"

But what about the artists who already thought of their art as "modern".Witcombe in his essay, *What is art? What is an artist?*(1997) points out to the 14th century artist who in his 1437 book "Il Librodell'Art" describes Giatto as having made painting 'modern'. This dilemma of what modernity or 'modernism' exactly means raises the question to the level that it becomes a necessity to have a broader perspective of its true nature. Roots of Modernism:

e- Journal
ISSN NO. 2456-9828

Modernism was said to have begun during the Renaissance as a revolt against the conservative values of Realism. It was a traditional pattern to use God or nature as the centre of all the measures of life, but the spirit of Renaissance already evoked the modernist trend of thought that human beings ultimately held the power to "create, improve, and reshape their environment with the aid of Scientific Knowledge, technology and practical experimentation". It evolved and expanded as the Age of Enlightenment and Scientific Revolution of the 18th century formalized this belief as credible. The open-mindedness of the 18th century allowed the people to think freely and apply reason to find truth. Arguably the most paradigmatic motive of modernism is the rejection of the traditional forms of art, the rejection of the certainty in Enlightenment thinking and the existence of the Omnipotent God.

Important intellectual precursors of Modernism in this sense are thinkers that questioned the certainties that had supported traditional modes of social organisation, religion and morality and the traditional ways of conceiving the human self. In biology, Charles Darwin's theory of evolution by natural selection undermines the religious certainty creating an aura of doubt regarding human being's superiority and the creation of man. Other thinkers and philosophers like Karl Marx in the field of economics, Friedrich Wilhelm Nietzsche and Arthur Schopenhauer radically question the truth and of the individual's place in the society.Nietzsche offered the notion in 1883 that 'God is dead', and questioned where this has left humanity and its morality. He concluded that we live in a meaningless universe and are therefore truly free to explore the capabilities of human endeavour. Psychoanalysts such as Sigmund Freud provided society with the means or the blueprint to go about this re- examination of society and the self and Carl Jung further expanded on the exploration of the subconscious to find the connection and bond among all individuals.

Prominent Figures and their influence in Modernism:

Sigmund Freud:

Virginia Woolf said, "On or about Dec 1910, human character changed". However,the whole of an individual character or of the society cannot be changed within a day or even a month. But the statement rings the truth. Character has been changed not because personality has altered, but literature

e- Journal
ISSN NO. 2456-9828

had. By 1910, Modernism reached its peak with the emergence of new knowledge and technology and the culture of that era began to look at things in an entirely different yet original way. Therefore, human character didn't really change but what really changes was the way it was perceived and the way that perception has been put into written form. This brings light to the theory brought forth by Sigmund Freud when he gave the ideas of the subconscious and the conscious state of mind. This single hypothesis about the human mind can have the power to change an entire literary era. The subconscious is the area of mind that is the deep feelings and desires that we are often unaware of. He goes on to mention the different developments within our psyche which he labelled as id, ego and superego.

Writers up to the point before the notion of modernism were mainly concerned with the plot and their descriptions, things that take place externally. Though they did not leave the internal human thought completely they did not give extended attention to the internal workings of the individual mind. T.S. Eliot's *The Love Song of J. Alfred Prufrock* is a modernist poem which reflected the influence of Freud on Modernism by the use of 'Stream of consciousness' technique. In the poem, Prufock fell in love with a girl, but his shyness prevented him from pouring out his feelings. He is often caught in an endless dilemma, to either confess his feelings or not. The reader is allowed to open a window into the thoughts and desires of the protagonist. Freud's concept of the role of the conscious and the subconscious within the mind of an individual is presented in this poem.

"The mind is its own place, and in itself can make a heaven of hell, a hell of heaven" wrote John Milton in his Book 1 of *Paradise Lost*. This presented the notion that the internal mind and thought itself is a powerful weapon.

Karl Marx:

Karl Marx's Philosophy is known as, "Dialectical Materialism" where no place is being given by him to the soul and spirit. Being the 'Father of Communism', his basic concept lies with the class conflict. He wanted to eliminate the hierarchical structure in the society and has concerns for the poor exploited masses. His teachings inspired many revolutions like the Russian and Chinese Revolution and deeply influenced the writings of D.H. Lawrence and George Orwell. *Animal Farm*, a novel written by George Orwell is a 1945 modernist novel that

e- Journal
ISSN NO. 2456-9828

has the influence of Marxism. It's an allegory written in the form of a fable, where animals are used as a metaphor to represent a satire on the Bolshevik Revolution. There are class differences and inequality among the animals themselves. This shows the influence of Marxism in Modernist Novel. Modernism, which had been a minority taste before the war, came to define the 1920s. It appeared in Europe in such critical movements as Dada and then in constructive movements such as surrealism, as well as in smaller movements such as the Bloomsbury Group.The 1920s were known as the "Jazz Age", or 'the roaring twenties' and the public showed considerable enthusiasm for cars, air travel, the telephone and other technological advances. The "Jazz Age" is most identified in the novels of F. Scott Fitzgerald, especially in *The Great Gatsby*.

A prominent feature of Modernism is the phenomenon called the avant-garde that is a small, self-conscious group of artists who deliberately undertake Ezra Pound's, 'make it new'. These famous words reflect the modernist movement approach to the old ways which they saw as obsolete. These Avant-garde artists represented themselves as 'alienated' from the established order.Among these artists are writers that include James Joyce, Luigi Pirandello and Samuel Beckett.

The literary trends of Modernism change to a certain extent within the field of poetry, novel and drama. Major modernist poets include T.S.Eliot, Stephen Spender, Dylan Thomas, W.H.Auden, W.B. Yeats and Robert Brook. Prominent novelists are Virginia Woolf, Aldous Huxley, James Joyce, Joseph Conrad, D.H. Lawrence, H.G.Wells and Franz Kafka. They wrote about human conditions at its worst and at its best while the woman counterparts began to champion the causes of women as an important influence to a truly modern age.

Poetry in Modernism has no set rules and patterns like sonnets or the poems of John Keats and P.B.Shelley which has rhyme schemes and definite metre. Free verse came into existence with the breaking away from this tradition followed by the 'stream of consciousness' technique which is found in the poem of T.S. Eliot, *The Wasteland*.

Conclusion:

Modernism has affected the individual and the society as a whole by its elevation into a new level of development and creation of a new mode of thought and a way of life. It has genuinely proved the dynamic nature of human life in this world and how we are not to be bound by a singular and absolute law. It

e- Journal
ISSN NO. 2456-9828

has played an important role in ushering 'optimism' in the part of literature.

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