VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA CAMPUS, BELGAVI-590018

PROJECT REPORT

On

"SPAM DETECTION IN ONLINE REVIEWS BY NETWORK BASED FRAMEWORK"

Submitted by

ARPITA KUNNE	**4AL14IS011**
ANANYA S V	**4AL14IS008**
MANASA	**4AL14IS024**
PANKAJ DEVIDAS DIVGI	**4AL14IS030**

In partial fulfilment of the requirements for the degree of

BACHELOR OF ENGINEERING

In

INFORMATION SCIENCE AND ENGINEERING

Under the Guidance of

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Assistant professor

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Moodbidri-574225, Karnataka

2017– 2018

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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

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Certified that the project work entitled "**SPAM DETECTION IN ONLINE REVIEWS BY NETWORK BASED FRAMEWORK**" *is a bonafide work carried out by*

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Suvishetty 28/4/18		
Mrs. Suviksha V Shetty	**Mr. Jayantkumar A. Rathod**	**Dr. Peter Fernandes**
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ABSTRACT

Nowadays social media plays an important role in our day-to- day activities. Specifically, in the past few years, online social websites such as Facebook, Twitter and WhatsApp are evolving as one of the major sources of communication for internet users, in order to keep in touch with their friends. However Spam reviews generated on a website results in huge financial gain only for competitors whereas it is a major loss for both customers and organization. The existing techniques for Spam reviews detection suffer due to issues such as limited datasets and lack of proper classification methods which results in inefficiency of the systems. In order to solve these problems, we propose a new framework which models the given review dataset using Heterogeneous Information Network (HIN) concept and solves the spam detection problem by means of clearly identifying the spam reviews present in a website. The performance of the proposed framework is evaluated using real-world labelled datasets of Amazon website. Its better performance is illustrated in terms of weight calculations based on meta-path concepts.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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PROJECT REPORT

On

"AUTOMATED ENERGY METER READING AND THEFT DETECTION"

Submitted by

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ABSTRACT

The proposed system design eliminates the human involvement in Electricity maintenance. The Buyer needs to pay for the usage of electricity on schedule, in case that he couldn't pay, the electricity transmission can be turned off autonomously from the distant host. The Existing domestic Energy meter reading systems universally exist problems, such as difficulty in construction, too narrow bandwidth, poor real time, not two way communication quickly etc. To solve above problems, this framework uses the wireless technology for Automatic Meter Reading system. The proposed method provides communication between the Electricity Board section and the consumer section using Global System for Mobile Communication (GSM) for transmitting the customer's electricity consumption and calculating the bill information. Depending on the power consumption, the information regarding the bill amount and payment are communicated to the consumer via SMS. The power and billing information is transmitted by the use of GSM modem and monitored by the Electricity Board section. Whenever there is power theft identified, the energy supply can be cut from the electricity board section by a distant host wirelessly.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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PROJECT REPORT

On

"DRIVER DROWSINESS DETECTION BASED ON VISUAL FEATURES"

Submitted by

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ABSTRACT

The number of motor vehicles in developing countries has been gradually increased over the decade. Official investigation reports of traffic accidents point out that dangerous driving behavior, such as drunk and drowsy driving, account for a high proportion of accidents. On average traffic, road accidents in the world claim 1.3 million lives and cause 50 million disabilities annually. To summarize, existing system are providing slightly less accuracy results due to low clarity image and videos, which results for variation in the camera position. To overcome these problems the proposed paper introduces drowsiness detection which are shape predictor algorithm that detects the eyes of a person, and also counts the eye blink of the driver to avoid the accidents. The development of a driver monitoring system capable of producing warning to the driver upon detecting signs of drowsiness can prevent road accidents and thus save lives.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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PROJECT REPORT

On

"AUTOMATIC DIPPER AND VEHICLE TO VEHICLE COMMUNICATION FOR CRASH AVOIDANCE"

Submitted by

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In

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ABSTRACT

Number of vehicles on our roads is increasing day by day, also the technology has developed but the safety factor is always needed to be considered. Head lights of vehicles pose a great danger during night driving. The drivers of most vehicles use high, bright beam while driving at night. This causes a discomfort to the person travelling from the opposite direction. Driver experiences a sudden glare for a short period of time. This is caused due to the high intense headlight beam from the other vehicle coming towards him from the opposite direction. Drivers are expected to dim the headlight to avoid this glare. This glare causes a temporary blindness to a person resulting in road accidents during the night.

Now a days vehicles are fitted with lots of safety features. One of the essential safety feature that need to be installed is automatic upper-dipper control of headlight, this feature can mainly use during night time driving. Human eyes are very sensitive to the light, if eyes suddenly comes in contact with the light after darkness, cornea present in eyes gets contract i.e; vision gets blank and require some time to recover the vision. Many times the situation comes when suddenly vehicle approaches from front with headlight in upper mode causes blindness to the eyes of the driver. During that time vehicle covers some amount of distance, hence accident may occur. It is a sheer luck if person goes safely through that situation. To overcome this manual dipping problem, an automatic mechanism has made to dip the headlight automatically whenever situation occurs. This can reduce number of accidents during night time and provide comfortable driving.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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PROJECT REPORT

On

"IoT-Based Framework for Automobile Theft Detection and Driver Identification"

Submitted by

NAME	USN
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Kirthy P	4AL14IS021
Pavan R	4AL14IS031
Spoorthi P N	4AL14IS040

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This is to Certify that the project entitled ***"IoT-Based Framework for Automobile Theft Detection and Driver Identification"*** *has been successfully completed by*

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ABSTRACT

An efficient automotive security system is implemented for anti-theft using an embedded system occupied with a Global Positioning System (GPS) and a Global System for Mobile (GSM). The client interacts through the system with vehicles and determines their current locations and status using Google Earth. The user can track the position of targeted vehicle on Google Earth. Using GPS locator, the target current location is determined and sent, along with various parameters received by vehicle's data port, via Short Message Service (SMS) through GSM networks to a GSM modem that is connected to PC or laptop. To secure the vehicle, the owner can turn off any vehicle of the fleet if any intruders try to run.

The proposed security system is designed to track and monitor vehicles that are used by certain party for particular purposes, also to stop the vehicle if stolen and to track it online for retrieval, the proposed system is an integration of several modern embedded and communication technologies. To provide location and time information anywhere on Earth, the Global Positioning System (GPS) is commonly used as a space-based global navigation satellite system. The location information provided by GPS systems can be visualized using Google Earth.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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PROJECT REPORT

On

"SMART TRAFFIC CONTROL FOR EMERGENCY VEHICLES"

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ABSTRACT

In developing countries like India population is significantly growing. As the population grows, the number of vehicles on the roads are also exponentially increasing, which results in increase in road accidents and traffic jams. Specifically, when an emergency vehicle such as Ambulance or Fire engine gets stuck in traffic jam, saving the human life becomes difficult. Under such circumstances, a promising system which can clear the traffic congestions especially in peak hours and thereby providing a safe path for emergency vehicles is very much essential. In the existing literature, less focus is given towards the problem of providing a clear path for emergency vehicles during traffic congestions.

To solve these issues, an Ultrasonic sensor and RFID-based system is proposed, which manages and regulates the traffic signals at junctions when the emergency vehicle approaches, by allowing the easy passage out of the traffic congestions. The proposed framework is modelled by means of an experimental setup using Arduino and LED's which simulates a real time traffic scenario. Ultrasonic sensors are installed on the roads to manage the traffic efficiently. The simulation results illustrate the better performance of the proposed framework in terms of detection as well as management of emergency vehicle by providing passage out of traffic congestions during peak hours.

The ultrasonic sensor which is placed at a threshold distance from the junction calculates the vehicles density. This density is used by Arduino to regulate the traffic. The RFID receiver is also placed at a threshold distance from the junction. The RFID receiver informs the Arduino about the arrival of the emergency vehicle. The Arduino then takes the required measures to allow a safety passage for the emergency vehicle.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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PROJECT REPORT

On

"A NEW AUTOMATED MEDICINE PRESCRIPTION SYSTEM FOR PLANT DISEASES"

Submitted by

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ABSTRACT

Agriculture struggles to support the rapidly growing global population in one hand, whereas plant diseases reduce the production and quality of food, fiber and biofuel crops on the other hand. Specifically, plant disease severity identification is the most important problem in the agricultural field which can avoid the excess use of pesticides and minimize the yield loss. In the existing systems, no methodology exists to identify the disease severity and to prescribe the required quantity of medicines to be sprayed. In order to solve this problem, an automated medicine prescription system is proposed in this paper, which takes the images from the uncontrolled environment, enhances and preprocesses the images received for the identification of disease. Precisely, in the proposed framework K-means and SVM algorithms are used for clustering and disease identification tasks respectively. Experimental setup and snapshots of results demonstrate the performance of the proposed system, by means of indicating the Severity of the identified disease.

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PROJECT REPORT

On

"IoT-Based Patient Remote Health Monitoring In Ambulance Services"

Submitted by

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ABSTRACT

Ambulatory healthcare is a type of remote patient monitoring that allows a medical caretaker to use medical device in the ambulance to perform a routine test and send the test data to a healthcare professional in real-time. Even though there are various methods to observe the health condition of the patient, the necessities of the quick measures to treat the person in case of emergencies are not yet fulfilled. If the person suddenly falls ill and being carried to the hospital, the doctor will get to know the condition or the cause of the illness only after diagnosing the patient which will consume more time. There is a need of monitoring technology in ambulances since in case of emergency lots of time is wasted in carrying patient to the hospital and diagnosing.

To overcome the delay in existing system Online system for remote health parameters of a patient in ambulance is proposed in this project. The experiment is conducted to compare the system values with the values obtained by the standard devices and the results are in good format and the system is efficient.