VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI - 590018
2018–2019

A Project Report
on

"An Automatic answer retrieving System for recurrent Questions in social Q&A using unsupervised Techniques"

Submitted in the partial fulfillment of the requirement for the 8th Semester Project

Bachelor of Engineering
in
"Computer Science and Engineering"

Submitted by

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Under the Guidance of
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Dept. of CSE, Dr. T.T.I.T.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING.

CERTIFICATE

Certified that the **Project Work** entitled *"AN AUTOMATIC ANSWER RETRIEVING SYSTEM FOR RECURRENT QUESTIONS IN SOCIAL Q&A USING UNSUPERVISED TECHNIQUES"* is a bonafied work carried out by **AFIFA SALSABIL FATHIMA A - 1GV15CS002, HAFSA FATHIMA G - 1GV15CS030, HEMAVATHI S -1GV15CS032 and NEHA KOUSER - 1GV15CS052** in the partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** of the **Visvesvaraya Technological University**, Belagavi in the year 2018-19. It is certified that all corrections/suggestions indicated for the assessment have been incorporated in the report deposited in the departmental library. The Project report has been approved as it satisfies the academic requirement in respect of **Project Work** 15CSP85 prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

The Internet is an important source of information, where the amount of data is vast and constantly growing. Users rely on search engines to find specific information in this knowledge base. Search engines such as Google and Bing use keywords provided by the users to perform searches. Recently, industrial research and development activities, such as Microsoft and Facebook's social-featured Bing search endeavor, try to combine search engines and online social networks for higher search performance.

Q&A systems are used by many people for purposes such as information retrieval, academic assistance, and discussion. To increase the quality of answers received and decrease the wait time for answers, we have developed and prototyped an online social network based Q&A system, called Social Q&A. It utilizes the properties of a social network to forward a question to potential answer providers, ensuring that a given question receives a high-quality answer in a short period of time.

Question and Answering (Q&A) systems have become major part in today's world for gaining and sharing knowledge and information. In general Q&A systems users post questions to get answers and pick the questions to answer in the system. As the user population is growing enormously, these systems are getting flooded with more number of questions. And some disinterested users will post irrelevant answers to posted questions. Hence the proposed system will improve the performance of Q&A systems by actively forwarding questions to experts who are capable and willing to answer the questions. Also, automatically retrieve's answers for recurrent questions. Thus, this system reduces the chances of user getting fake answer and provides satisfactory answers for the posted questions.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI-590018
2018–2019

A
PROJECT REPORT
On

"AUTOMATIC DRIVER DROWSINESS AND ALCOHOL DETECTION SYSTEM USING IOT "

Submitted in the partial fulfillment of the requirement for the VIII Semester Project Report – 15CSP85 for the award of degree of

Bachelor of Engineering
In
Computer Science and Engineering
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Name of Examiners	Signature with Date
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2. B.A. Vinutha	2. 12/6/19

ABSTRACT

Drivers who do not take regular breaks when driving long distances run a high risk of becoming drowsy and cause accidents. It is a state which they often fail to recognize early enough according to the experts. Studies show that around one quarter of all serious motorway accidents is attributable to sleepy drivers in need of a rest, meaning that drowsiness causes more road accidents and also by mobile usage,drink-driving. Driver fatigue is a significant factor in a large number of vehicle accidents. The development of technologies for detecting drowsiness and various causes due for accidents at the wheel is a major challenge in the field of accident avoidance systems. Because of the hazard that drowsiness presents on the road, methods need to be developed for counteracting its affects.

To overcome this problem, we propose a system which uses various sensors. These sensors are used to detect the driver drowsiness, alcohol consumption, mobile usage of the driver. The buzzer is used to alert the driver whenever the driver detected with any of the parameter then it alerts the driver.. Whenever the sensor values are not in the range of threshold value, the driver is alerted. All these sensor operations are controlled by Microcontroller. With the help of this system, the major road accidents can be reduced by alerting the driver.

In addition to this if the driver is slept the vehicle will be slowed down, and it monitors the alcohol consumption and mobile usage of the driver and displays it in the LCD. It also alerts the driver if any of the action if triggered the buzzer will buzzed and alert the driver.

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CERTIFICATE

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI - 590018

2018 –2019

A

Project Report

on

"An Ensemble Multivariate Model For Resource Performance Prediction In Cloud Using Machine Learning Techniques"

Submitted in the fulfillment of the requirement for the
VIII Semester Project Report -15CSP85 for the award of degree of

Bachelor of Engineering

in

Computer Science Engineering

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ABSTRACT

Cloud Computing has appeared as a new model for high performance computing. It provides its services to hundreds and thousands of computers that are interconnected through a network, which allows them to share resources and services. The performance of cloud computing depends on both the effective utilization of resources and reliability. Resources contention causes host load and availability to vary over time and the prediction is more difficult. The host here can be viewed as a collection of resources i.e., CPU, memory usage and I/O. Resource demands prediction has become a promising tool to facilitate automatic scaling of resource management, which makes it feasible to reduce the cost and improve resource utilization in the cloud.

Many models have been proposed for resource prediction is cloud. Most current prediction methods of resource demands are based on a single model. However, the resource load patterns are usually diversity and variability in the cloud, it is hard to get the satisfactory prediction performance through a single model. To solve this problem, a ensemble based model using machine learning technique is proposed in this work. Ensemble model takes best features from single model and provide a composite model to predict resource performances. Due to Ensemble model, the accuracy of prediction is improved.

In this work, Ensemble based machine learning model is proposed to predict the resource performances in cloud. The proposed solution is tested on Google work load dataset. The effectiveness of proposed solution is measured in terms of mean absolute percentage error (MAPE), root mean squared error (RMSE) and cloud prediction cost (CPC). The proposed Ensemble solution is compared with prediction results of individual model to prove that the proposed solution performs better.

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"International Conference on Recent Trends in Technology, Engineering and Applied Science (ICRTTEAS-2019)" held during 12th & 13th April 2019 at Dr.T. Thimmaiah Institute of Technology Kolar Gold Fields, Karnataka.

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2018–2019

A

Project Report

on

"ONLINE SOCIAL VOTING RECOMMENDATION USING COLLABORATIVE FILTERING"

Submitted in the partial fulfillment of the requirement for the VIII Semester Project Report-15CSP85 for the award of degree

of

Bachelor of Engineering

in

Computer Science and Engineering

by

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2018–2019

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ABSTRACT

Social voting is an emerging new feature in online social networks. It poses unique challenges and opportunities for recommendation. In this paper, we develop a set of matrix-factorization (MF) and nearest-neighbor (NN)-based recommender systems (RSs) that explore user social network and group affiliation information for social voting recommendation. Through experiments with real social voting traces, we demonstrate that social network and group affiliation information can significantly improve the accuracy of popularity-based voting recommendation, and social network information dominates group affiliation information in NN-based approaches.

Social and group information is much more valuable to cold users than to heavy users. In our experiments, simple metapath-based NN models outperform computation-intensive MF models in hot-voting recommendation, while users' interests for nonhot votings can be better mined by MF models. We further propose a hybrid RS, bagging different single approaches to achieve the best top-k hit rate.

With the advancement of information and communication techniques, sharing information through social voting is spring up new feature in online social networks. The increasing popularity of social voting suddenly brings forth the "information overload" problem. In this paper, we conduct a comprehensive study of a set of matrix factorization (MF) and nearest-neighbor (NN) – based recommender system (RSs), which explore user social network along with group affiliation information for social voting recommendation. The MF and NN models observe that social and group information is much more valuable to cold user than to heavy users

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI - 590018

2018 – 2019

A

Project Report

on

"An Approach of Multilevel Clustering for Replication Detection of Images"

Submitted in the partial fulfillment of the requirement for the VIII Semester Project Work – 15CSP85 for the award of degree of

Bachelor of Engineering

in

Computer Science and Engineering

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ABSTRACT

Recursion, multiple occurrences and duplication is a major challenge for larger servers and cloud data with image as a core service, creating a larger space of similar patterns. Modern research is focused towards the optimization of space and memory addresses. Near Replication Detection of images leads to great interest for researchers due to the increase in photometric software's and increased use of Mobile Phones for taking photos, selfies, etc. Near Replicates is nothing but many images of one theme with slight variations.Thus, increasing the space complexity on the cloud which is due to housing of replicated or similar images. To reduce the space complexity on the cloud, i.e. to detect the images which are replicated, a new system called An Approach of Multilevel Clustering for Replication Detection of Image (MC-RDI) is proposed.

The MC-RDI consists of four stages, Feature Extraction, K-means Clustering, Agglomerative clustering, and finally Cluster validation. MC-RDI takes a set of similar and dissimilar gray scale images and retrieves the corresponding near replicate images from the data set and estimates the level of replication for a input image set. The step includes extracting the feature of images using statistical operation like Mean, Standard Deviation and Variance from gray scale images. Then using the feature vector, k means is done to form cluster of near replicate images. The next level agglomerative clustering performs a partial clustering within each cluster by the process of merging operations that finds out the images within the cluster which are highly similar. Cluster validation is performed on the resultant clusters of agglomerative cluster to calculate the accuracy and misclassification error. It calculates the intra similarity and intra dissimilarity in the resulting cluster. Based on the similarity measured, the near replicate images and the level of replication from the corresponding cluster are retrieved.

This algorithm helps in identifying the set of replicate or near-replicate images. The replicate images detected using this algorithm can be eliminated, which leads to reduction of space complexity on the cloud storage and increases the performance.

ICRTTEAS 2019
April 12 - 13

International Conference on Recent Trends in Technology, Engineering and Applied Science

Best Paper Award

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Belagavi-590018

2018–2019

A

Project Report

on

"SECURE ATM USING NFC AND ADAPTIVE AUTHENTICATION USING MACHINE LEARNING"

Submitted in the partial fulfillment of the requirement for the VIII Semester Project Report-15CSP85 for the award of degree

of

Bachelor of Engineering

in

Computer Science and Engineering

by

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Name of Examiners	Signature with Date
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2. B.A. Vinutha	2. 12/6/19

ABSTRACT

The flexible use of credit and debit card transactions has become increasingly ubiquitous and so have the associated vulnerabilities that makes them a common target for cyber criminals. There is an increasingly common loss involving theft in digital commerce like stealing or skimming of debit cards. In order to overcome this inherently weakness, a system is designed with relatively new technology called as Near Field Communication (NFC). Near Field Communication (NFC) mainly used to communicate from one device to another device .

Due to inherently short range capabilities of Near Field Communication (NFC) , cell phones can communicate with the Automatic teller machine (ATM) only with close proximity. The main intension is to provide high security level authentication system by eliminating the concepts of password or a PIN which is entirely pivotal to store in memory.

Authentication provides a means to verify the legitimacy of a user trying to access any confidential or sensitive information. Static method cannot completely guarantee the genuine user. More over, single factor authentication (passwords) are simply knowledge based information that can be shared amongst users. Hence, single factor authentication does not completely ensure the authenticity of users. Two factor authentication or multi factor authentication is preferable due to its improved security levels.

Essential functions of the system involves providing dynamic method of multi factor (Risk based) Authentication, NFC registration, Secured ATM transactions using NFC tags and NFC-enabled mobile phones.

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Belagavi-590018
2018–2019

A

Project Report

on

"EFFICIENT BLOCK-WISE IMAGE COMPARISON AND STORAGE REDUCTION"

Submitted in the partial fulfillment of the requirement for the VIII Semester Project Report-15CSP85 for the award of degree of

Bachelor of Engineering

in

Computer Science and Engineering

by

KAVYA SHREE N
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Carried at

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ABSTRACT

With the advent of cloud computing, secured data deduplication has gained a lot of popularity. One of the techniques used for the ongoing research area is the Message Locked Encryption (MLE) scheme where the data is generally in text form. Applying secured data deduplication to such data files could significantly reduce the cost and space required for their storage.

In this project we present a secure deduplication scheme for Near Identical (NI) images using the Dual Integrity Convergent Encryption (DICE) protocol, which is a variant of the MLE based scheme. In the proposed scheme, an image is decomposed into blocks and the DICE protocol is applied on each block separately rather than on the entire image.

As a result, the blocks that are common between two or more NI images are stored only once at the cloud. The paper provides a method to perform secure image deduplication at the block level based on the DICE protocol which shows that greater the similarity of images, lesser number of blocks to be stored at the cloud.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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A

Project Report

on

"Hybrid Cryptosystem with a New Lightweight Cryptographic Algorithm"

Submitted in the partial fulfillment of the requirement for the VIII Semester Project-15CSP85 for the award of degree of

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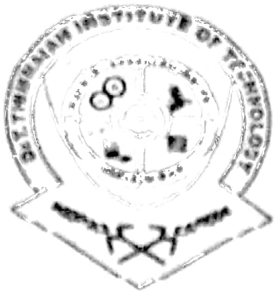

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ABSTRACT

In this present world there is lot of importance in transferring and securing the digital data. But there is problem in securing the data, to avoid that we are going to use a combined algorithm. We implemented a hybrid algorithm using Hummingbird algorithm and SHA-1(Secure Hash Algorithm). This hybrid algorithm is implemented in vivado software, using verilog hardware description language.

Hummingbird algorithm is a latest ultra-lightweight cryptographic algorithm targeted for low cost smart devices. Hash function plays a major role in today's cryptographic applications. It compresses an Infinite length of message into a finite length of message. SHA-1 is widely used in public key cryptographic algorithms. SHA-1 architecture achieves higher working frequency and also higher throughput. We are aiming to design an algorithm of low power and high speed, lightweight algorithm for securing data.

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2018-2019

A
PROJECT REPORT
On

"A NEW APPROACH OF RANKING PREVALENT NEWS TOPICS FROM SOCIAL MEDIA USING UNSUPERVISED TECHNIQUES"

Submitted in the partial fulfillment of the requirement
for the VIII Semester Project Work -15CSP85 for
the award of degree of

BACHELOR OF ENGINEERING
In
COMPUTER SCIENCE ENGINEERING

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2018 –2019

A

Project Report

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Certified that the **Project work** entitled ***"A New Approach of Ranking Prevalent News Topics From Social Media Using Unsupervised Techniques"*** is a bonafide work carried out by **NILOFER TAJ - 1GV15CS055, POOJITHA M - 1GV15CS064, SHAZIYA BANU A - 1GV15CS084, SINDHU M - 1GV15CS089**,in the partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for the assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirement in respect of **Project Work - 15CSP85** prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

The main objective of ranking is to identify, consolidate and rank the most prevalent topics discussed in both news media and social media during a specific period of time. Mass media sources, specifically the news media, have traditionally informed us of daily events. In modern times, social media services such as Twitter provide an enormous amount of user generated data, which have great potential to contain informative news-related content.

To achieve prioritization, information must be ranked in order of estimated importance considering three factors. The temporal prevalence of a particular topic in the news media is a factor of importance, and can be considered the media focus (MF) of a topic. The temporal prevalence of the topic in social media indicates its user attention (UA). The interaction between the social media users who mention this topic indicates the strength of the community discussing it, and can be regarded as the user interaction (UI) toward the topic.

Ranking is an unsupervised framework which identifies news topics prevalent in both social media and the news media, and then ranks them by relevance using their degrees of MF, UA, and UI. Our experiments show that ranking improves the quality and variety of automatically identified news topics. Moreover, it undergoes an empirical framework, comprising and integrating several techniques, such as keyword extraction, measures of similarity, graph clustering, and social network analysis. The effectiveness of our system is validated by extensive controlled and uncontrolled experiments.

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2018 -2019

A

Project Report

on

"ADVANCED AUTOMATIC TOLL COLLECTION AND VEHICLE DETECTION SYSTEM USING IOT"

Submitted in the partial fulfillment of the requirement for the VIII Semester Project Work -15CSP85 for the award of degree of

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In

Computer Science and Engineering

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Certified that the **Project work** entitled *"Advanced Automatic Toll Collection And Vehicle Detection System Using IOT"* is a bonafide work carried out **by Velantina. V. - 1GV15CS096, Veda Bai. G. - 1GV15CS095, Varshini. M. Naik. - 1GV15CS094 and Padmavathi. S. - 1GV15CS060** in the partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** of the **Visvesvaraya Technological University**, Belgaum during the year 2018-19. It is certified that all corrections/suggestions indicated for the assessment have been incorporated in the report deposited in the departmental library. The Project report has been approved as it satisfies the academic requirement in respect of **Project Work-15CSP85** prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

Now a days there is a huge rush in the toll plazas in order to pay the toll charges,Therefore in order to reduce the traffic congestion and to save time, & also to reduce the money loss,we are designing a project for the automation in toll collection system.Internet of things is an integral part in today's development of smart city, now without internet is became like nothing is possible in the world especially for corporate systems where we use internet for communication purpose. Internet of things (IoT) is expanding it's outreach to every aspect of our daily life and our needs. The Automatic Toll collection system uses RFID and GSM technology that helps to reduce the Traffic congestion. The Toll booth can be completely managed using the 'Internet of Things' concept based on the RFID and GSM technology.

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BELAGAVI - 590018
2018–2019

A
Project Report
on

"A New Approach for Sentimental Analysis on Twitter dataset using Probability Theory"

Submitted in the partial fulfillment of the requirement for the VIII semester project work -15CSP85 for the award of degree of

Bachelor of Engineering
In
Computer Science and Engineering

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ABSTRACT

Sentimental analysis refers to the task of natural language processing to determine whether a piece of text contains some subjective information it expresses, that is whether the attitude behind the text is positive, negative or neutral. Understanding the opinions behind the user-generated content automatically is of great help for commercial and political use, among others. The task can be conducted on different levels, classifying the polarity of words, sentences or entire documents.

Twitter is an online social networking site which contains rich amount of data that can be a structured, semi-structured and un-structured data. It present a method that learns word embedding for Twitter sentiment classification. Most existing algorithms for learning continuous word representation typically only model the syntactic context of words but ignore the sentiment of text. This is problematic for sentiment analysis as they usually map words with similar syntactic context but opposite sentiment polarity, such as good and bad, to neighbouring word vectors.

To overcome the above issue, in this project an improved sentimental analysis technique called probability based text classifier(PBTC), it aims to categorize the twitter comments into finite number of different classes based upon probability theory concept(supervised learning process), the work of this project is to classify the twitter comments into different classes based on supervised concept. There are three stages such as feature extraction, training and classification.

In the first stage, identifies a relevant and irrelevant words in the input text/twitter comments based upon supervised pre-determined pattern. In the next stage, identifies keywords pattern over the input text based on the supervised manner. In the last stage, catagories the input dataset(twitter comments) into distinct dissimilar classes with higher probability based on naive bayes classifier. Experimental result shows the proposed system(PBTC) that produces the better classification result with higher probability.

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Belagavi-590018

2018–2019

A

Project Report

on

"A NEW METHOD OF IMAGE BASED IMAGE RETRIEVAL USING UNSUPERVISED CLUSTERING METHOD"

Submitted in the partial fulfillment of the requirement for the VIII Semester Project Report-15CSP85 for the award of degree

of

Bachelor of Engineering

in

Computer Science and Engineering

by

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Name of Examiners

1. Thara devi.M
2. Ravi kumar.M

Signature with Date

1. 13/6/19
2. 13/06/19

ABSTRACT

The project introduces a new method for image retrieval. An image retrieval system returns a set of images from a collection of images in the database to meet users demand with similarity evaluation such as image content similarity, edge pattern similarity, color similarity Content Based Image Retrieval is the mainstay of current image retrieval system. The purpose of CBIR is to present an image conceptually, with a set of low-level visual features such as color, texture and shape, which uses Error Diffusion Based Block Truncation Coding (EDBTC)compressed data.

The image feature descriptor is constructed from two EDBTC representative color quantizer and its corresponding bitmap image. The color histogram feature(CHF) derived from two color quantizer represents the color distribution and image contract while the bit pattern histogram feature(BHF) constructed from bitmap image characterizes the image edge and texture information .The distance computed from CHF and BHF can be utilized to measure the similarity between two images .Error diffusion is a type of halftoning in which the quantization residual is distributed to neighboring pixel that have not yet been processed.

Error diffusion with good capability for image compression and offers an effective way to index image which combines the color, shape, and texture features for the Content based image retrieval system.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI - 590018

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A

Project Report

on

"Cancer Prediction System Using Data Minning Techniques"

Submitted in the partial fulfillment of the requirement for the VIII Semester Project Work – 15CSP85 for the award of degree of

Bachelor of Engineering

in

Computer Science and Engineering

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CERTIFICATE

Certified that the **Project** entitled ***"CANCER PREDICTION SYSTEM USING DATA MINING TECHNIQUES"*** is a bonafied work carried out by **NIVEDITHA N-1GV15CS059, POORNIMA VASANTH V-1GV15CS065, PRIYANKA G N-1GV15CS069, NIVEDITHA K B-1GV16CS405** in the partial fulfilment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2018-2019. It is certified that all corrections/suggestions indicated for the assessment have been incorporated in the report deposited in the departmental library. The Project report has been approved as it satisfies the academic requirement in respect of **Project – 15CSP85** prescribed for the Bachelor of Engineering Degree.

Premalatha 12/6/2019 .... 12/6/19

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ABSTRACT

Cancer is one of the leading causes of death worldwide. Early detection and prevention of cancer plays a very important role in reducing deaths caused by cancer. Identification of genetic and environmental factors is very important in developing novel methods to detect and prevent cancer. Therefore a novel multi layered method combining clustering and decision tree techniques to build a cancer risk prediction system is proposed here which predicts lung, breast, oral, cervix, stomach and blood cancers and is also user friendly, time and cost saving.

This project uses data mining technology such as classification, clustering and prediction to identify potential cancer patients. The gathered data is preprocessed, fed into the database and classified to yield significant patterns using decision tree algorithm. Then the data is clustered using K- means clustering algorithm to separate cancer and non cancer patient data. Further the cancer cluster is subdivided into six clusters. Finally a prediction system is developed to analyze risk levels which help in prognosis.

This project helps in detection of a person's predisposition for cancer before going for clinical and lab tests which is cost and time consuming.