MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA246 – MAIN PROJECT

PRO FORMA FOR THE APPROVAL OF THE FOURTH SEMESTER MAIN PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete
Pro forma of approval in any respect will be rejected.)

Main Project Proposal No : _____ *(Filled by the Department)*	Academic Year : 2021- 22 Year of Admission : 2020

1. Title of the Project : SOCIAL MEDIA OPINION ANALYSIS FOR INDIAN POLITICAL
2.
3. Name of the Guide : _____
4. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
AYISHA BEEBA	MES20MCA-2013	

Date:

Approval Status : Approved / Not Approved

Signature of Committee Members

Comments of the Guide — Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of the Project Coordinator — Dated Signature

Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature of HOD

SOCIAL MEDIA OPINION ANALYSIS FOR INDIAN POLITICAL

Ayisha Beeba

Introduction: The advent of social media and rapid development of mobile communication technology changed the way to express the feeling, attitude, mood, passion etc. People often express their reactions, fancies and predilections through social media by means of short texts of epigrammatic nature rather than writing long text. Many micro blogging services like Twitter enable people to share and discuss their thoughts and views in the form of short texts without being constrained by space and time. Millions of tweets are generated each day on multifarious issues. Sentiments or opinions for diverse issues have been observed as an important dimension which characterizes human behavior.

Objectives: In this system knn(k-nearest neighbor classification) approach is used for classification.

In this input reviews collected from text messages. It helps in advanced identification of the inter-social dynamics like ranking. More precisely pinpoints the reasons for user satisfaction/dissatisfaction

Problem Definition: The results reveal value of this competitive study and how these diplomats could deal with their political affairs in a better way and identify areas where they need to take a better step into. This study could really help these diplomats to improve their political strategies. This rich supply of user generated content as attitude, opinions, comments etc. in the public media are of huge significance for study on human behavior. In this system knn(k-nearest neighbor classification) approach is used for classification. In this input reviews collected from text messages.
It helps in advanced identification of the inter-social dynamics like ranking. More precisely pinpoints the reasons for user satisfaction/dissatisfaction

Basic functionalities: In this system knn(k-nearest neighbor classification) approach is used for classification. Use of enhanced mathematical techniques
Inter-social dynamics helps in discovering the relationship between user opinions.
Inclusion of medical lexical dictionaries helps in analyzing for most other diseases.
Gives a clear picture on the sources of user satisfaction/dissatisfaction.
Prediction is Faster.

Tools / Platform, Hardware and Software Requirements:

HARDWARE REQUIREMENTS
- Hardware: 32bit Processor
- Speed: 2.53 GHz
- RAM: 4GB
- Hard Disk: 20 GB
- Key Board: Standard Windows Keyboard
- Mouse: Two or Three Button Mouse
- Monitor: SVGA

SOFTWARE REQUIREMENTS
- Operating System: Windows 7/8/XP
- Technology: C# / python / JAVA
- Database: MySQL

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Main Project Proposal No : _____ *(Filled by the Department)*	Academic Year : 2021- 22 Year of Admission : 2020

1. Title of the Project : Intelligent Learning Assistant for Children with Autism Spectrum
2. Name of the Guide : _____
3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
AYISHA BEEBA	MES20MCA-2013	

Date:

Approval Status : Approved / Not Approved

Signature of Committee Members

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Initial Submission :

First Review :

Second Review :

Comments of the Project Coordinator — Dated Signature

Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature of HOD

Intelligent Learning Assistant for Children with Autism Spectrum Disorder

Ayisha Beeba

Introduction: Children with Autism Spectrum Disorder(ASD) suffer from social and communication issues. In addition to that they also exhibit a complex collection of behaviors which makes it difficult for the trainers to identify the methodology to be adapted for training them. At present a mishmash of techniques are used to evaluate them in general, without identifying their uniqueness or specific characteristics. This project proposes an emotion based intelligent learning assistant that could provide suitable courseware for autistic student 's learning. Along with this, trainer can chat with the parents. They can provide help and guidance to the parents and they can also provide study materials to teach autistic students. This system uses deep learning-based emotion recognition to detect the emotion and association rule mining is used to classify the emotion.

Objectives: This project is an intelligent learning assistant that could provide suitable courseware by identifying a child specifically based on emotions of the autistic student This system uses deep learning-based emotion recognition to detect the emotion and association rule mining is used to classify the emotion. A website is created to connect the experts and parents. They are controlled by an admin. Experts provide study materials and medical help for the students. Parents can ask questions, and they also get the medical help details and tips. This makes the system more attractive. There is no need to contact the experts directly. And they also get medical helps to take care of their children.

Problem Definition: At present a mishmash of techniques are used to evaluate them in general, without identifying their uniqueness or specific characteristics. All students in a class have to learn same courseware. Teachers cannot identify the specific characteristic of the student.All students are forced to select the same courseware. Parents contact to the experts directly. No way to easily find out the status of their student.

Basic functionalities: Tried to provide suitable courseware by identifying a child specifically based on emotions of the autistic student This system uses deep learning-based emotion recognition to detect the emotion and association rule mining is used to classify the emotion.

Tools / Platform, Hardware and Software Requirements: Python based Deep Learning libraries will be exploited for the development and experimentation of the project. Tools such as Anaconda Python, and python libraries will be utilized for this process. Training will be conducted on NVIDIA GPUs for training a probabilistic modeling and deep learning approach for diseases prediction. We can use medical hardware devices for capturing the real data or test the results on real-time data.

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Main Project Proposal No : _____ *(Filled by the Department)*	Academic Year : 2021- 22 Year of Admission : 2020

1. Title of the Project : Parking security using optical character recognition
2. Name of the Guide : _____
3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
AYISHA BEEBA	MES20MCA-2013	

Date:

Approval Status : Approved / Not Approved

Signature of Committee Members

Comments of the Guide — Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of the Project Coordinator — Dated Signature

Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature of

PARKING SECURITY USING OPTICAL CHARACTER RECOGNITION

Ayisha Beeba

Introduction: Parking spaces are allotted to the doctors' when joining the hospital. It is a personal parki ng space for that specific doctor and no one else should park there. But still we can see numer ous cases where people arriving to the hospital to visit a patient to park in the places allocated for the doctors, just because the general parking space is far away. So that we are proposing a n algorithm-based number plate character recognition system. We are using an algorithm nam ed optical character recognition (OCR). OCR detects character and check the database. If the r ecognised characters do not match with the actual characters in the database, it will alert the d octor and security.

Objectives: • Detect Characters from images
- Reduce unauthorized parking
- Inform doctor and security
- Provide status
- View notification

Problem Definition: The aim of the proposed system is to overcome the limitations of the current system. This pro ject deals with detection of characters in the image. It is always seen that people park their ve hicle in reserved space just because it is more convenient. So, an alert system will be needed t o detect vehicle being parked unauthorized and alert the doctor and security. So that we are pr oposing an algorithm-based character recognition system named Optical Character Recognitio n (OCR). OCR detects character and check the database. If the recognised characters do not m atch with the actual characters in the database, it will alert the doctor and security.

Basic functionalities: Our system uses an algorithm called Optical Character Recognition to recognize the vehicle. An image is shot of the vehicle number plate. So, by detecting the character in the image and checking with the database we can recognize the vehicle.The main concept of this system is to identify the character in the image using image processing. In addition, we can also notify the authorized person with the slot number of the parking space.

Tools / Platform, Hardware and Software Requirements: • Processor : Pentium IV or above.
- System Bus : 32Bit
- RAM : 512 or more
- HDD : 40 Gb or more
- Monitor : 15'' LCD
- Key Board :108 keys
- Mouse : any type of mouse
- Mobile : Android supported mobile phone
- Webcam

SOFTWARE REQUIREMENTS
- Operating system : Windows XP/7 or any 32-bit or 64-bit platform,Android
- Front End : Html,CSS,Javascript
- Back End : MYSQL,Python,Java
- IDE : PyCharm, Eclipse