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 : 1 *(Filled by the Department)*	Academic Year : 2021- 22 Year of Admission : 2020

1. Title of the Project : COLLEGE MATE
2. Name of the Guide :Mr. Vasudevan T V
3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
MUHAMED SADHIQ P V	MES20MCA-2032	

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

COLLEGE MATE

MUHAMED SADHIQ P V

Introduction: One of the importent issue behind every students in their college is shortage of attendance and internal marks . they are unable to know their attendance report in dailyor weekly and not aware about the internal marks. Students should able to know their attendance percentage as they wish ,We are moving with this fact and providing a software for students to know about their stage of attendance and internal.

Objectives: We are offering a software based on students friendly for easy to know their academic about details. Students can easily get uptodated on their information such as internal marks and attendance reports on their Android phone itself , There is an option for every students to request a second chance for internal exams and request changing the attendance if he is present in the class through this software and we also including a Notification link for students for reminding the works seminar and other academic worksand events.

Problem Definition: The application is to provide a resource of data for the students for their better achievements in their studies they have a better resource of knowing or featured about their internal marks attendance report and their academic studies this creates a massive growth of studies.

Basic functionalities:

1. **Admin**

   - Department Management
   - Course Management
   - Subject Management
   - Subject Allocation
   - Staff Management
   - Notification Management
   - View Student Details

2. **Teacher**

   - Approve Student
   - View Subject Allocation
   - Internal Management
   - Attendence Management
   - Exam request Management
   - Notification Management

- Exam Scheduling

3. Student

    - Registration
    - View Internal
    - View Attendence
    - View Notification
    - Request for Re-exam

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 : 2
(Filled by the Department)

Academic Year : 2021- 22
Year of Admission : 2020

1. Title of the Project : STOCK MARKET PERDICTION USING MACHINE LEARNING
2. Name of the Guide : Mr. Vasudevan T V
3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
MUHAMED SADHIQ P V	MES20MCA-2032	

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

STOCK MARKET PERDICTION USING MACHINE LEARNING

MUHAMED SADHIQ P V

Introduction: Investor sentiment plays an important role on the stock market.User-generated textual content on the Internet provides a precious source to reflect investor psychology and predicts stock prices as a complement to stock market data.This project integrates sentiment analysis into a machine learning method based on support vector machine.Tweets are downloaded from tweeter and sentiment analysis isperformed on the tweets.
Support Vector Regression is applied on historical stock price data and closing value of stock for next day is predicted.Our model will help investors to take wiser decision while trading.

Objectives:

- To automatically perform opinion mining of people regarding particular stock using sentiment analysis

- To predict near future price of stock using machine learning.

- To provide visualization of data.

- To build computer based decision support system which will help investors while taking decision about selling and buying of stock so that they can make more profit.

Problem Definition: The stock market process is full of uncertainly and it's affected by many factors such as company news and performance,industry performance,investor sentiment ,economic factors etc. that can cause the price of a stock to rise or fall . the coomon problem faced by the investor include high market volatility,loss of money,stock market crash ,poor investment skills and lack of market knowledge .These reasons may lead to wrong decisions. If investor makes wrong decision while selling and buying of the share then they may face loss. Hence before investing money ,it is very important for investors to predict the stock market.Hence the stock market prediction is one of the important exertions in business and finance

Basic functionalities: System should collect accurate data from the tweeter and historical data of stock price from yahoo finance.System should be able to accurately classify the sentiments of the comments from tweeterSystem should properly apply support vector machine(regression) algorithm to historical stock price data.

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 : 3 *(Filled by the Department)*	Academic Year : 2021- 22 Year of Admission : 2020

1. Title of the Project : MOVIE RECOMMENDATION BASED ON EMOTION IN PYTHON
2. Name of the Guide :Mr. Vasudevan T C
3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
MUHAMED SADHIQ P V	MES20MCA-2032	

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

MOVIE RECOMMENDATION BASED ON EMOTION IN PYTHON

MUHAMED SADHIQ P V

Introduction: One of the underlying targets of movies is to evoke emotions in their viewers. IMDb offers all the movies for all genre. Therefore the movie titles can be scraped from the IMDb list to recommend to the user. IMDb does not have an API, for accessing information on movies and TV Series. Therefore we have to perform scraping. Scraping is used for accessing information from a website which is usually done with APIs.

Objectives:

- Movie recommendation based on emotion in Python
- One of the underlying targets of movies is to evoke emotions in their viewers.
- Therefore the movie titles can be scraped from the IMDb list to recommend to the user.

Problem Definition: The scraper is written in Python and uses lxml for parsing the webpages. BeautifulSoup is used for pulling data out of HTML and XML files.
Emotion associated with Genre of Movie. There are 8 classes of emotion that would be effective to classify a text. These are: ‘Anger’, ‘Anticipation’, ‘Disgust’, ‘Fear’, ‘Joy’, ‘Sad’, ‘Surprise’, ‘Trust’. Here these are taken as input and the corresponding movies would be displayed for the emotion.
The correspondence of every emotion with genre of movies is listed below:
Sad – Drama
Disgust – Musical
Anger – Family
Anticipation – Thriller
Fear – Sport
Enjoyment – Thriller
Trust – Western
Surprise – Film-Noir
Based on the input emotion, the corresponding genre would be selected and all the top 5 movies of that genre would be recommended to the user.

Basic functionalities: Web Scraping is highly beneficial in extracting the data and doing analysis on it. Scraping is used for accessing information from a website which is usually done with APIs. The scraper is written in Python and uses lxml for parsing the webpages. BeautifulSoup is used for pulling data out of HTML and XML files.