

- Feature selection :** Feature selection is a process which is used to select those features which contributes much to our output. There are various feature selection methods that can be used. In the first stage, feature selection methods such as Information Gain (IG), Chi-Square and Mutual Information (MI) are used. In the second stage, k-mean clustering algorithm is used. As the name suggests that it forms k numbers of clusters.
- Classification :** In order to determine the efficacy of the proposed feature selection method, the three classifiers like Support Vector Machine (SVM), Random Forest (RF) and Naive Bayes classifiers are used. The Support Vector Machine (SVM) is a supervised learning model which uses the classification algorithm to classify the text. This phase is going to carry out the actual classification process. It is going to determine the polarity of the sentence.

Applications

- It can be used by organizations to determine what folks think about their products.
- Can be used by people to find out what actually an individual intended to say.

Ms. Dipali Kote
(BE IT)

Program Educational Objectives (PEOs) :

- PEO 1 :** Graduates of IT program should possess knowledge of fundamental concepts in mathematics, science, engineering and technology as well as skills in the field of Information Technology for providing solution to complex engineering problem of any domain by analyzing, designing and implementing.

- PEO 2 :** Graduates of IT program should possess better communication, presentation, time management and teamwork skills leading to responsible and competent research, entrepreneurship and professionals, will be able to address challenges in the field of Information Technology at global level.
- PEO 3 :** Graduates of IT program should have commitment to societal contributions through communities and life-long learning.

Program Specific Outcomes (PSOs):

- PSO1 :** Attain the ability to provide software solutions by applying knowledge of Data Structures & Algorithms, Databases, Web Technology, System Software, Soft Computing and Cloud Computing.
- PSO2 :** Apply the knowledge of Computer Hardware & Networking, Cyber Security, Artificial Intelligence and Internet of Things to effectively integrate IT based solutions.
- PSO3 :** Apply the knowledge of best practices and standards of Software Engineering for Project Management.

EDITORIAL BOARD

Dr. D. N. Kyatanavar	Principal
Dr. M. A. Jawale	HOD
Ms. K.D. Patil	Editor
Mr. N.S. Patankar	Member

Regd. AD/Book-Post

To, _____

Pincode

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IT NEWS LETTER

Department of Information Technology

Permanently Affiliated to SPPU, Pune.

ISO 9001 : 2015 Certified & NAAC 'A' Grade NBA accredited

SRES's Sanjivani College of Engineering,

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Departmental News Letter

Volume VIII, Issue I

December 2019

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VISION

To develop world class IT professionals through quality education.



MISSION

To create Academic Excellence in the field of Information Technology through Education, Industry Interaction, Training and Innovation to improve quality of life of people.

We are committed to develop industry competent technocrats with life-long learning capabilities and moral values.

FROM HOD'S DESK



Dear Students,

Welcome to the 2019-20 academic year!

Given the interesting times, it is my singular privilege to address this issue of the departmental newsletter. I am delighted to share that our department has been accredited by National Board of

Accreditation (NBA), New Delhi for 3 years. I congratulate all members for this big achievement.

It wouldn't have been possible to achieve this accolade without support of our management, Director Dr. D. N. Kyatanavar sir, faculty members and all of you my dear students. This semester has been excited for all of us with various events organized in our department. We had Sanjivani Tech Fest with interesting activities such as DBMania, Hunky Brain, and Spontaneity War etc. where all of our students participated actively in many events.

We have platforms like Thought Leader, My Story Board, Sanjivani I-connect, which are providing us opportunities to interact with many of the industry experts. This semester too we could connect to many such eminent experts from various industries. Various activities conducted at department and T&P Cell are helpful for students to improve their technical and communication skills. I am glad to share that we have been able to provide consultancy services to other departments, colleges and organizations with our IT Skill Set. May we all together continuously excel to serve our society with the skill and improve the life of people around us.

I would just put a quote here which reflects my philosophy too. "We are what we repeatedly do, excellence,

then is not an act, but a habit" –Aristotle.

- Dr. M. A. Jawale

Professor and Head

Department of Information Technology



Department has been accredited by National Board of Accreditation (NBA), New Delhi for 3 years

FROM EDITOR'S DESK



Dear Readers,

It is indeed a great honor to be the Newsletter Editor for the Department and it is an immense pleasure to launch this first edition for academic year 2019-20. Newsletter is one of the ways to congratulate all the students, faculty members who achieved great heights

through their leanings, experiments and experiences. It is one way to highlight the achievements of department and I am very happy to share that Department of Information Technology has accredited by National Board of Accreditation (NBA), New Delhi for 3 years. I congratulate all the students, faculty members, Head of Department, Dr. M. A. Jawale, Head of Institute Dr. D. N. Kyatanvar, management and whole Sanjivani family for this big achievement.

We always strive to make our newsletters more than just newsletters by being informative. We are always open to any ideas that will help us improve our newsletter. Please email your ideas to the editor directly.

Last but not least, I would like to thank Head of Department, all faculty members and students for their everlasting support throughout the creation of this edition.

Ms. K. D. Patil,

NEWS AT A GLANCE

- In this semester, Department has organized Special Capsule Course of 60hrs for the students of SE IT on “Cyber Security and Forensic” by Cyber Expert Mr. Tanmay Dikshit. On the last day of course, all the students of SEIT spread awareness in Sanjivani Campus. Ms. D. P. Bhamare and Ms. K. D. Patil have coordinated this course.



Students of SEIT spreading awareness of Cyber Security in Sanjivani Campus

- As we know that Department has started SAP (ABAP module) course from year 2017-18. Every semester new students are registering for course and completing 200 hours online training. I am happy to share that some of these students are completing Global Certification which is valid worldwide. Ms. Snehal rajale, Mr. Shankar Jadhav, Ms. Sadnya Patil and Ms. Pradnya Patil are certified as “SAP Cerified Development Associate – ABAP with SAP NetWearer 7.50” from 2019 batch. Currently they are working in Good companies with good package. New batch has started with 15 students and soon they will complete the course.
- Under the flagship program of 'Sanjivani I-Connect' guest lecture of Mr. Kedar Kekan, Distributed System Engineer, Platform9 Systems Inc, Pune was organized on 27th July 2019. Mr. Kekan discussed on the topics such as Technology Trends, Cloud Computing and Career Path. Mr. N. S. Patankar worked as coordinator for the same.



Mr. Kedar Kekan addressing students on topic “Technology Trends, Cloud Computing & Career Path”

- Department has organized “Five days FE Induction Program” from 8th August 2019 to 14th August 2019 for FEIT students in association with Global Talent Track, Pune. A total of 48 students from FEIT have attended this program.
- Department of Information Technology organized 'Sanjivani TechFest-2019' on 20th and 21st September 2019. All the students from FE to BE participated in more than one events organized by department. The Technical events like Innovata, Dazzale Coding, DBMania, Marathon Programming were organized to improve the technical and programming ability of students. Some events like Hunky Brain, Spontaneity War, Word War and BeSpeak were organized to improve the leadership quality, communication skill and overall personality of students. Each event was coordinated by One faculty with two students. The overall coordination of the event was done by Mr. R.R. Nikam.

- The Fourth event conducted was “Guess the Language”. Objective of the event was to improve Technical and Programming skills of the students. A total of 41 students participated in the event. It was conducted on 10th October 2019. Mr. Pankaj Tanpure (BE COMP) And Mr. Sushant Vaidya (BE COMP) was the winner and Mr. Aditya Zalte (BE COMP) and Mr. Nilesh Mahajan (BE COMP) was runner up.

Dr. M. A. Jawale
CSI Student Branch Counsellor

ALUMNI ARTICLE

Environment Sustainability.... Sustain IT and It will sustain YOU....

Environment Sustainability talks about preserving what you have for your future generations which you cannot produce on your own. To tell you in brief I would say, it concerns with each of your action. The moment you switch off the light not in use YOU are taking one step towards it. Each product which is made, each thing which is consumed by us is creating our footprints for the generations to come. We talk about global development, 21st century; India as Global leader but above all what matters is how each individual is contributing in it.

Out of the three pillars, Social, Environmental and Economic Sustainability, the most important is ENVIRONMENTAL SUSTAINABILITY [1]. As an example, if you are not getting a meal in a day you cannot talk of economic growth of country or for that matter you cannot even think of talking to your friend because you are hungry. That same food you are getting from environment. All of our basic needs are fulfilled only and only by environment and what are we returning to that are just destroying our very reason of existence.

Don't worry...Just take few simple steps...It is all about finding ways to live more sustainably, which means using resources today in a way that maintains their supplies for the future. It doesn't mean living without luxuries but rather being aware of your resource consumption and reducing unnecessary waste. [2]

Install energy-efficient appliances and turn off appliances that you're not using.

Eat locally; Give a thought before you purchase anything about its necessity in your life.

Reduce use of disposable or single use items and try to resell and donate items

Make people aware of these issues and educate them to use resources wisely.

Mahatma Gandhi said that “The world has enough for man's

need but not enough for man's greed!”

(References: 1. <https://www.thwink.org>
2. <https://www.dummies.com/education/science/environmental-science>)

Ms. Nidhi Ruparel
(Alumni 2009 Batch)

STUDENT ARTICLE

Sarcasm Detection

Sarcasm is a linguistic phenomenon in which people state the opposite of what they actually mean. In simple terms we can define sarcasm as taunt or a bitter gibe. The example of sarcastic sentence can be like 'Ignorance makes me happy'. Here, happy expresses a positive sentiment in a negative context. Sarcasm detection could be a difficult task, even for humans. While speaking with each other people often make use of different body languages like rolling of eyes etc. due to which it becomes easy to identify sarcasm in the statement. However, in case of the text information, these body languages are missing thus the sarcasm detection task becomes complicated.

Objectives :

- To implement an algorithm for automatic classification of text into positive, negative and neutral
- To determine whether the attitude of the mass is positive or negative towards the subject of interest.

Proposed System :

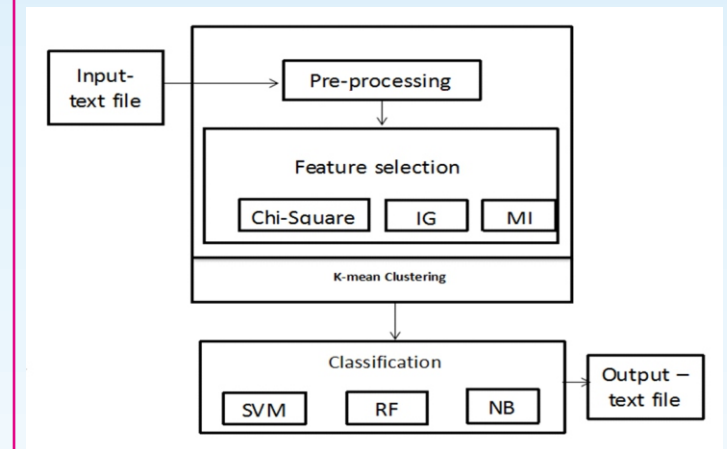


Figure 1: Block diagram of proposed system

- Pre-processing :** In this phase non trivial and less informative terms are eliminated, which does not contribute much to classification processes. In initial stage words are converted into lower case and then various kinds of preprocessing techniques are being applied. In this work, the tweets are pre-processed by eliminating stop words, digits and punctuation.

ITERA EVENTS

- Activities of ITERA started with, Two days' workshop on "Android Programming" dated 28th & 29th July 2019. The workshop was organized for students of SE IT. 33 students participated in the workshop. Our beloved alumni Mr. Satyam Ghondale from 2017 batch was the resource person of workshop. Ms. D. P. Bhamare worked as a coordinator for this workshop.
- Second, Surf and Present event was organized for all students of department on 18th September 2019. For the event 17 students participated. From FE IT, Ms. Game Arpita, from SE IT, Mr. Mane Rushikesh, from TE IT, Ms. Chobhe Snehal and Mr. Dusane Pratik from BE IT, were winners of the event.
- Next event was "Gaming Competition". Organized on 4th September 2019. 50 students participated in the competition. For boys students NFS game was organized and for girls students Ludo game was organized. Ms. Arpita Game (FE IT), Ms. Apeksha Giri (TE IT) & Tejal Nikalje (TE IT) were winners for Ludo game. Mr. Saurabh Patil (SE IT), Mr. Shrikant Bidkar (TE IT) & Mr. Pratik Dusane (BE IT) were winners of NFS game.



- A Seminar was organized for the students of 11th science, 11th commence, B. Pharmacy and M. Pharmacy on the topic "Cyber Security & Awareness". For the seminar 148 students were present. Second Year students from department explore the Cyber Security Awareness. Ms. K. D. Patil worked as a coordinator for the event.



Second year students are sharing the important tips on "How to secure our Data and Devices"

Prof. R.R. Nikam
In-Charge, ITERA

CSI EVENTS

It gives us a great joy to announce that the CSI accredited student wing was formed in our college with a total of 426 students from TE, BE Information Technology and Computer Engineering department. We are hopeful that this student wing will reach new heights by organizing thoughtful events and knowledge enrichment programs. Below is the brief description of events organized and conducted in semester I of this academic year.

- The First event conducted was Expert Lecture on "MEAN Stack". Objective of the event was to improve Technical skills of students. Total 64 students participated in the event. It was conducted on 15th July 2019. Mr. Pranit Thakur, Pranvi Computech, Yeola was the resource person for the same.



- The Second event conducted was Two days' workshop on "Angular JS". Objective of the event was to improve Technical and Programming skills of students. Total 28 students participated in the event. It was conducted on 7th and 8th September 2019. Mr. Amol Rokade, Software Developer, Clarion Tech, Pune was the resource person for the same. Ms. K. D. Patil worked as a coordinator for this event.



- The Third event conducted was "Technical Quiz". Objective of the event was to improve Technical skills of students. A total of 41 students participated in the event. It was conducted on 3rd October 2019. Mr. Pravin Gaikwad (BE IT), Mr. Gopal Panigrahi (TE COMP) and Mr. Shaikh Altaf (SE IT) were the winners.



At the time of Inauguration, Honorable Nitindada Kolhe, Executive Trustee, Sanjivani Group of Institutes, Dr. D. N. Kyatanvar, Director, SCOE, Dr. M. A. Jawale, Head of IT department were present



Third year students actively participated in Word War Event. Mr. A. A. Barbind and Mr. R. N. Kankrale are judging the students

- Department has organized a Expert Talk under 'Sanjivani I-Connect' by Mr. Ajit Subhash Mote, Lead Senior DevOps Engineer at Clairvoyant LLC, Pune on 23rd September 2019 for students of Information Technology and Computer Engineering.



- Under the banner of 'Sanjivani I-Connect' guest lecture of Dr. Uday Wad, Associate Vice-President, Datamatics Global Services Limited and Mr. Sanjay Mulkikar, HR-Head Nashik Operations was organized for the students of Information Technology on 28th September 2019. Dr. Uday Wad guided students about the Recent Trends and job opportunities in the IT Industry.



Dr. Uday Wad addressing students on Job opportunities

- In this semester Our NSS team have organized different Social activities such as Cleaning of Godavari River, Cleanliness rally on occasion of Mahatma Gandhi Jayanti, Tree plantation, celebration of yoga day on occasion of Yoga day etc. In the winter Camp of NSS different activities like Cleaning, Tree plantation, make pool, street plays were conducted. Ms. Zunge Sonali, Ms. Mayuri Shelke, Ms. Riya Shelke, Mr. Soham Dixit, Ms. Kalyani Deshmukh, Ms. Mrunal Kulkarni, Mr. Jayram Pansare, Ms. Apeksha Giri, Mr. Santosh Chavan and Mr. Shantanu Vetel enthusiastically participated in each activity. Mr. T. Ravikumar is working as the departmental NSS coordinator.



ACADEMIC ACHIEVERS

Savitribai Phule Pune University Exam April / May 2019 Class Toppers

BEIT

Ms. Abak Anuja Dilip : 9.14 SGPA (1st)
Ms. Lalwanai Shrutika Narendra : 8.95 SGPA (2nd)
Ms. Mogal Priyanka Ashok : 8.91 SGPA (3rd)

TEIT

Ms. Bhosale Nikita Vinayak : 8.7 SGPA (1st)
Ms. Phepale Aditi Khandu : 8.7 SGPA (1st)
Ms. Gadekar Vandana Gangadhar : 8.59 SGPA (2nd)
Mr. Gaikawad Pravin Bhanudas : 8.35 SGPA (3rd)

SEIT

Mr. Chaudhari Vishal Bhagwat : 8.9 SGPA (1st)
Ms. Chobhe Snehal Namdeo : 8.6 SGPA (2nd)
Ms. Badhe Pooja Rajendra : 8.16 SGPA (3rd)

SPORT ACHIEVEMENTS

- Mr. Shantanu Vetal was member of Baseball Team which was winner of National Level Inter-Engineering Sports Meet "SUMMIT-19" organized by MIT World Peace University, Pune during 14th to 18th September 2019.
- Mr. Ashutosh Darpel was member of Vallyball Team which was participated in National Level Inter-Engineering Sports Meet "SUMMIT-19" organized by MIT World Peace University, Pune during 14th to 18th September 2019.

T & P NEWS

- To improve the employability skills of students, different Training activities were carried for TEIT & BEIT students.
- In house 'Python foundation Course' was conducted by T & P department from 6th June 2020 to 21st June 2020 exclusively for TEIT students. 35 students have attended this course.
- Next inhouse training was organized to brush-up technical skills of BEIT students from 11th July 2020 to 14th July 2020.
- 2 days inhouse workshop was conducted on "Employability Skills Development" for all TEIT students on 2nd and 3rd August 2019. Mr. Jayavellu sir

conducted this workshop which focused on communication & soft skills improvement of students.

- 2 days 'FUEL Training' was conducted for TEIT students by T & P cell from 23rd to 25th December 2019. 25 students have attended this training.
- 7 days 'FACE Training' was conducted exclusively for BEIT students in collaboration with Facus Academy for career Enhancement, Pune from 25th December to 31st December 2019. Almost 40 students participated in this training.
- 6 Days training was organized on 'Python Programming' in association with PHN Technology, Pune from 26th to 31st December 2019 for all students of TEIT. 49 students have attended.

PLACEMENTS

Hearty Congratulations to the following students for being placed in various companies with high package.



Ms. Parnika Ashok Shinde
IT Trainee,
FIS Solutions, Pune.

Ms. Vaishnavi Avinash Avhad
Cloud Analyst,
Bluepineapple, Pune.



Ms. Sayali Prakash Mahale
Programmer Analyst,
Cognizant, Chennai.

Ms. Deepali Kailas Kote
Assistant System Engineer,
Tata Consultancy Services,
Pune.



Mr. Saurav Khandagale,
Software Developer,
Persistent, Pune.

Ms. Akanksha Raosaheb Hon
Programmer Analyst,
Cognizant, Pune.



Mr. Pravin B. Gaikawad
Programmer Analyst,
Cognizant, Pune.



Ms. Snehal Lokhande
Cloud Analyst,
Bluepineapple, Pune.



Ms. Manjusha Balasaheb Kolhe
Jr. Software Engineer,
Netwin Infosolutions, Nashik.



Ms. Aditi Khandu Phepale
Programmer Analyst,
Cognizant, Pune.



Ms. Madhuri Shankar Labhade
Sales and Marketing (CIC),
JustDial, Pune.



Mr. Akshay Bharat Sonawane
Programmer Analyst,
Cognizant, Pune.



RECENT DEVELOPMENT

- Happy to share that, students with help of faculty members are developing projects and providing consultancy services for other departments, colleges and organizations.
- Mr. Aditya Lodha and Mr. Yash Nanaware develop Enterprise Resource Planning (ERP) for Amalgamated Pvt. Ltd., Nashik. The industry was facing problem of managing the stock of raw materials, orders and some records as they were managing it manually by making entry in book. The existing system was too time

consuming and inefficient. It was difficult to track the orders and timings to particular department. These students propose a computer based solution as ERP software which will track and generate all the records permanently. Dr. M. B. Gawali guided the students.

- Mr. Y. S. Deshmukh has developed "Sanjivani Bus Pass Generation System" for Sanjivani Group of Institutes. Automatic pass will get generated after giving name of student and route. As well various transaction reports will be generated day wise, week wise and month wise. Updation facility is also available.

FACULTY PARTICIPATION

- Dr. M. A. Jawale worked as a resource person for the expert talk on "Recent trends in computer and Information Technology sector" at SNJB COE, Chandwad.
- Mr. N. S. Patankar has conducted a workshop on "Internet of Things", for second year Computer Technology Student on 30th September 2019 at Sanjivani KBP Kopargaon.
- Mr. Y. S. Deshmukh attended Faculty Development Program for Student Induction sponsored by AICTE during 2 sessions. First session was conducted during 13th to 15th May 2019 and Second session was conducted during 10th to 16th June 2019.
- Dr. M. B. Gawali and Mr. R. D. Chintamani attended FDP On "Emerging Trends in Speech, Image and video Processing Techniques" sponsored by AICTE and organized by Department of E&TC, Sanjivani College of Engineering, Kopargaon during 25th November to 7th December 2019.
- Mr. R. N. Kankar & Ms. D. P. Bhamare has attended Two week FDP on "Integration of moral values, ethics, behavioral Science & Attitude towards Outcome Based Education for New Age Teachers" sponsored by AICTE and organized by Department of MBA, Sanjivani College of Engineering, Kopargaon during 18th to 30th November 2019.
- Mr. C. D. Bawankar has attended Two week Pedagogical FDP sponsored by AICTE during 4th to 15th Nov. 2019
- Ms. K. D. Patil has attended one week FDP on "Artificial Intelligence" sponsored by AICTE Training and Learning Academy and organized by Dr. BATU, Lonere during 2nd to 6th December 2019.