

# Implementation of College Recommendation System

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**ABSTRACT:** Currently in India college ranking is the issue that is discussed a lot. In this system, a common forum where students can get information about various engineering colleges and their ranking. There are many websites that give information about various engineering colleges but when it comes to students, for them it is important to know certain insights to parameters like faculty, academics, hostel facility, placement etc. Students from small cities and villages have less exposure to various Colleges which are funded by state and central government for studies, Research and Innovation. If these students will have sufficient exposure then the young talent will be properly channelized as per their interest. In this system consist mainly student, alumni and admin module. In this system Recommendation of colleges according to the rating based on different parameter like academic, sport etc. on the basis of rating top colleges in pune.

**KEYWORDS:** Alumni, College Recommendation System, Rating

## I. INTRODUCTION

Now a day's number of engineering, medical and other stream colleges an in pune are rapidly increase for every year. Each college is providing the various facilities to the student as well as the employee of the college. According to the providing facilities as well as teaching standard of college is deciding the admission of colleges. If college teaching staff is good and facilities are good for student then students take admission for that college. If any student wants to take admission for any college then student first search that college and view rating of college from various websites then take the admission for the college. In this system admin can add different college info with various rating parameter like

place,academics,sport,facility,Infrastructure and marks also .Alumni of colleges can give the rating of the colleges with parameters. If this system user can search the different college from Pune then user can view all the details of college as well as view all the ratings of that particular college. According to the contain based search algorithm student can search colleges. On the basis of rating system can recommendation of the best college for take and admission.We can introducing new approach for remove the drawback of existing system as well as improve the accuracy this system.

## II. PROBLEM STATEMENT

Now a days different colleges information available on internet like opinions and rating accessible to us are one of the most critical factors in formulating our views and influencing the success of a brand. Existing system is not good or enough for suggest top colleges.

## III. GOAL AND OBJECTIVE

### Goal

Using contain based algorithm sentiment analysis of rating of colleges and identify top colleges in pune.

### Objective

- To search different colleges in pune.
- View the college details in the system.
- Give the rating to the colleges.

#### IV. LITERATURE SURVEY

Dr.S.Gomathi and Rohini, Punitha [1] proposed sentiment analysis has lead to advancement of better items and great business the executives, surveys. In this work system proposed Max entropy for feebly administered Deep Embedding for school survey sentence notion grouping. The strategy max entropy performs well for finding the outcomes as positive. The precision of Max entropy produces 96% for school surveys. Max entropy is progressively fit for displaying the long-term conditions in sentences, however it is high productive than Random timberland, SVM, Naïve Bayes, Tree. We likewise find that our strategy can improve general content order.

M. S. Usha [2] states that sentimental analysis, a sub discipline inside data mining and computational derivation, suggests the computational method for mining, comprehension and looking over the suppositions imparted in various end rich resources like web diaries, trade discourses, etc. The objective of feeling investigation is to recognize enthusiastic states in online content. More often than not classifiers prepared in one area don't perform well in another space. Likewise the issue in existing methodologies isn't to recognize opinion and themes. Assumptions may shift with subjects. This system introduced another model called Combined Sentiment Topic (CST) model to identify assumptions, points at the same time from content. This model depends on Gibbs sampling algorithm. In addition, dissimilar to administered ways to deal with supposition mining which frequently neglect to deliver great execution when moving to different areas, the unaided idea of CST makes it exceptionally convenient to different spaces. CST model performs better contrasted with existing semi-managed approaches.

Mrs. S. Yamini et.al [3] introducing that sentiment analysis is a two level assignment. The first is Identifying Topic and the second is, grouping assessment identified with that theme. Slant Analysis begins with "What other individuals thinks?" Conclusion Extraction manages the recovery of the sentiment or state of mind passed on in square of Unstructured content in connection to the space of the record being broke down. But a lot of research has gone in the NLP, AI and web mining system on expelling composed data from unstructured sources; most by far of the4 proposed techniques depend upon grimly named unstructured data. The World Wide Web has been overpowered by unstructured substance and glancing through the web has been established on frameworks from Information Retrieval. Managed learning count researches the arrangement data and produces an assembled limit which is called characterization.

Arora D et.al [4] states that sentiment investigation of the content information accessible on the web either as online journals or at web based life destinations, for example, Twitter, Facebook, and LinkedIn, offers data through which to survey individuals' viewpoint of items and administrations that are important to them. Customers routinely scour the Internet to survey other client's audits for an item or an administration before settling on their own choice. Similarly, these equivalent information can possibly give organizations a depiction in time of the clients' reaction to their items/benefits and even the patterns after some time. This data increased through conclusion examination would then be able to be utilized by organizations to settle on choices about improving their items and administrations, and addition an expanded edge over their rivals. Specifically, user will probably look at whether the tweets open on the web are sufficient to build accommodating comprehension about the show of noticeable propelled cell denotes, their battery life, screen quality, and on the obvious introduction of the phones working structures. Our outcomes demonstrate that in spite of the fact that the Twitter information provides some data about clients' slants to the mainstream advanced mobile phone brands and their hidden working frameworks, the measure of information accessible for various brands differs significantly.

Kanakaraj M.[5] et.al Mining opinions what's more, separating presumptions from casual association information help in different fields, for example, even guess, inquiring about all around disposition of open on a specific social issue, and so on. This structure consolidates analysing the way of the general populace on express news from Twitter posts. The key thought of the structure is to manufacture the exactness of depiction by including Natural Language Processing Techniques (NLP) particularly semantics and Word Sense Disambiguation. The mined substance data is introduced to Ensemble depiction to isolate the end. Troupe solicitation joins blending the impact of different free classifiers on a specific solicitation issue. Evaluations drove show that outfit classifier beats ordinary AI classifiers by 3-5%.

Prakruthi V et.al [6] state that Supposition investigation alludes to the application for preparing normal language, content examination, computational phonetics, what's more, biometrics to efficiently perceive, separate, evaluate, and learn full of feeling states and abstract data. Twitter, being one among a few well known online life stages, is where individuals frequently decide to communicate their feelings and suppositions about a brand, an item or a help. Dissecting slants for tweets is useful in deciding individuals' supposition as positive, negative or on the other hand

impartial. This paper assesses the individuals' supposition about an individual, pattern, item or brand. Twitter API is utilized to get to the tweets straightforwardly from twitter and construct a notion grouping for the tweets. The result of the examination is delineated for positive, negative and unbiased comments about their assessments utilizing perception procedures, for example, histogram and Pie outline.

### V. ALGORITHM APPROACH CONTAIN BASED ALGORITHM

A word reference based methodology is been used to expel contain from record. A conventional stopword rundown containing 450 contain based made utilizing half and half approach is utilized The calculation is actualized as underneath given advances.

**Stage 1:** The objective report content is tokenized and individual words are put away in exhibit.

**Stage 2:** A solitary stop word is perused from contain based list.

**Stage 3:** The stop word is contrasted with objective content in type of exhibit utilizing successive pursuit strategy.

**Stage 4:** If it matches, the word in exhibit is evacuated, and the correlation is proceeded till length of cluster.

**Stage 5:** After evacuation of stopword totally, another stopword is perused from stopword list and again calculation pursues stage 2. The calculation runs consistently until all the contain based words are thought about.

**Stage 6:** Resultant content without contain based word is shown, additionally required insights like contain based expelled, no. of words expelled from objective content, all out include of words in objective content, include of words in resultant content, singular stop word include found in objective content is shown.

### VI. PROPOSED SYSTEM APPROACH

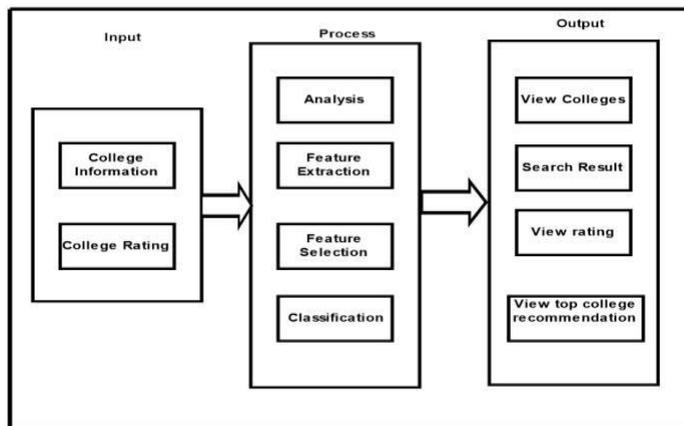


Fig. Architecture Diagram

In this we have developed a recommender system that understands information seeker need and accordingly generates recommendations for him/her through simple interface, which provides information to the students and advisors to improve the choice of courses. In our methodology we have opted for hybrid approach which combines advantages of Collaborative filtering algorithm and Content based filtering algorithm to improve our recommendations. The system consists of an interactive process in order to construct profile of the User. As the sample datasets that are used for experiments are large and also contain more number of feature sets, it is essential to understand dataset beforehand. View different college of list according to different streams like engineering, medical etc. Sentiment analysis of rating on different college. In this system admin can add different college info with various rating parameter like place, academics, sport, facility, Infrastructure and marks also .Alumni of colleges can give the rating of the colleges with parameters. If this system user can search the different college from Pune then user can view all the details of college as well as view all the ratings of that particular college.View top colleges in pune after sentiment analysis of review Recommending items based on the users interest requires processing of these large datasets, thus if this information is properly profiled then the task of recommending



would get a lot easier. Also when results are shown to the user, big challenge is how well data can be ranked so that user satisfaction is guaranteed.

**VII. COMPARATIVE RESULTS**

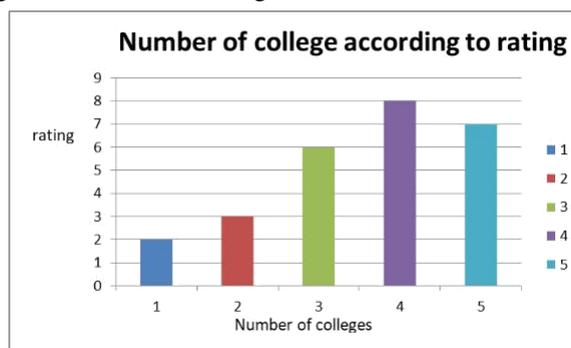
In our experimental setup, as shown in table 6.1, the In this system consist different engineering colleges of different types of review .Each engineering college have rating. This colleges is divided into 5 category on the basis of rating from 1 to 5.Following table shows number of colleges according to the rating.

Sr. No	College Rating	Number of colleges
1	1	2
2	2	3
3	3	6
4	4	8
5	5	7

**Table1 6.1: Number of college according to rating**

**VII.RESULTS**

From above data, as college rating according table 6.1, the numbers of colleges found to be 1 rating were 2, 2 rating were 3, 3 rating were 6, 4 rating were 8 and rest 5 rating were 7.



**Graph 7.1: Number of college according to rating**

**VIII. CONCLUSION**

Student search various universities utilizing contain based search algorithm expulsions calculation in Pune just as framework can show the top colleges in Pune based on audits. Presently a day's number of designing, restorative and other stream colleges an in pune are quickly increment for consistently. Every school is giving the different offices to the understudy just as the representative of the school. Concurring the giving offices just as encouraging standard of school is choosing the confirmation of universities. In the event that school instructing staff is acceptable and offices are useful for understudy, at that point understudies take affirmation for that school. In the event that any understudy needs to take confirmation for any school, at that point understudy first pursuit that school and read all the audits for



that school from different sites just as internet based life like on the basis of rating. In this system consist mainly student, alumni and admin module. We can introducing new approach for remove the drawback of existing system as well as improve the accuracy this system.

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