

# Mobile Alert for Upcoming Competitive Exams with Collaborative Filtering Using K-NN

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## ABSTRACT

Collaborative filtering is the process of performing recommendation system based on the user requirements for a particular service. It is a modern way that private department provides services for the public to improve government job's efficiently. It is very important need to improve the public services for the social development for our nation. This system offers benefits to the public who needed satisfied jobs can receive valuable information regarding current competitive exams on the fly, easily and conveniently. With the advent of mobile network communication system, users have been offered lots of services such as ability to send multimedia messages like SMS, Video, Data files, Images e.t.c. This paper describes the design and implementation of a system (Date Alert System) that conveniently provides examination dates prior to candidates with the use of Email and SMS technology via their Mobile phones and devices. Mobile phones and devices are necessary assets, most especially to students as it makes communications and the spread of information a lot easier. The implemented system allows registered candidates to access their book materials, dates, including past candidates review comments, provided they are available in the system's database.

**Keywords:** Collaborative filtering, K-NN, Notification Alert, SMS Alert.

## I. INTRODUCTION

This system used to make decision within acceptable time and to generate ideal recommendations from so many services. Concretely, as a critical step in traditional CF algorithms, to compute similarity between every pair of users or services may take too much time, even exceed the processing capability. Consequently, service recommendation based on the similar users or similar services would either lose its timeliness or couldn't be done at all.

Date Alert System is a system that can be used to overcome the limitations most of our institutions of higher learning face in making the examination date and grades available to students. The major advantage of this system offers the students can receive valuable information on the fly, easily and conveniently. SMS and E-mail play a major role in the implementation of this system. SMS and email have become important services today due to their usefulness in conveying

information from one place to another in a very fast and easy way.

## II. METHODS AND MATERIAL

### 1. Literature Survey

Now a days it is common to share data between two organization in many application areas. When data are to be shared between parties there could be some sensitive patterns which should not be disclosed to other parties. They address such a problem of sensitive classification rule hiding. They propose a blocking based approach for sensitive classification rule hiding.

The purpose of this risk alert is to share the people's observations from these examinations and raise awareness of the compliance issues observed by the people.

(1) **COMMUNICATION** : Frequently & personally interacted with the advisors

- (2) **RESOURCES** : More significant related issues were identified at registrants.
- (3) **EMPOWERMENT** :Who were able to independently obtain the records they deemed necessary for conducting such reviews. The risk alert as intended to highlight for the issues that the people has identified.

Alert system is a system that can be used to overcome the limitations most of our institutions of higher learning face in making examination results to students. Here the validation process is done by comparing the received information with student information in the database. If the validation succeeds. The system application retrieves the matching results from the database. The system application then forward results to the SMS gateway(using GSM modern).

Service-relevant data become too big to be effectively processed by traditional approaches. It aims at recruiting similar services in the same clusters to recommend services collaboratively. The number of the services in a cluster is much less than the total number of the services available on the system. It is expected to reduce the online execution time of collaborative filtering.

## 2. Existing System

Most institution make use of a web based platform to provide examination results to their candidates .Web based platforms are readily available platforms and can provide various options such as saving and printing. But this platform becomes inaccessible if the user has no access to the internet. In the existing system all the works are done manually. So it is time consuming.

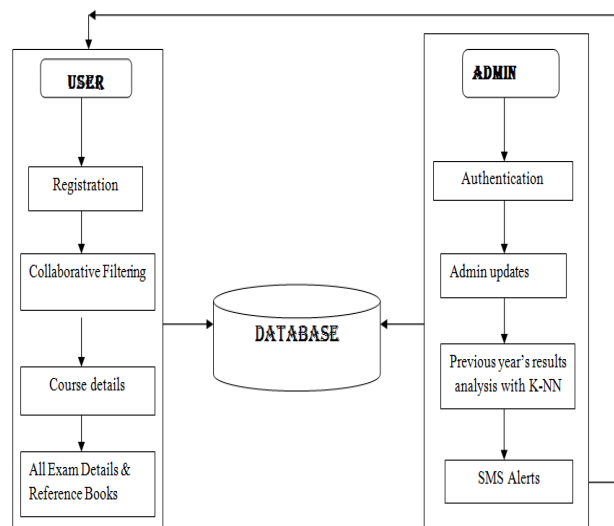
## III. RESULTS AND DISCUSSION

### 1. Proposed System

The proposed system can provide the better support for public by providing accurate EXAMINATION DATE and their RESULTS through an SMS and E-MAIL alert system. User can View the nearby coaching centres for the exams with fees structures will be viewed by the candidates. Books and Reference materials as well as user can download their Book materials through their user page. Owing to SMS ALERT and EXAMINATION DATE to be notify to their mobile.

In this proposed system we can added two different algorithms these are used both in admin and user side. The collaborative filtering is used for filtered the exams according to the user qualifications and another K-NN algorithm which is used for users to find the nearest best coaching centres nearer to their living locations. We can overcome the existing system.

### A. ARCHITECTURE DIAGRAM



### B. MODULE DISCRPTION

#### o Authentication Module

The Admin can also get on to the system by login to their separate page. It could check whether the admin is authenticated person or not. Later admin would update the system and adding exam book and center details with their results using K-NN algorithm.

#### o K-NN Algorithm

K-NN would very useful for users to the identification of best centers with great results and which is nearer to their living locations.

#### o Collaborative Module

The Collaborative module which is used to filtered the eligibility of the exams to apply for the registered users according to their qualifications. This module provides separate pages to be allotted for the users with their exams details.

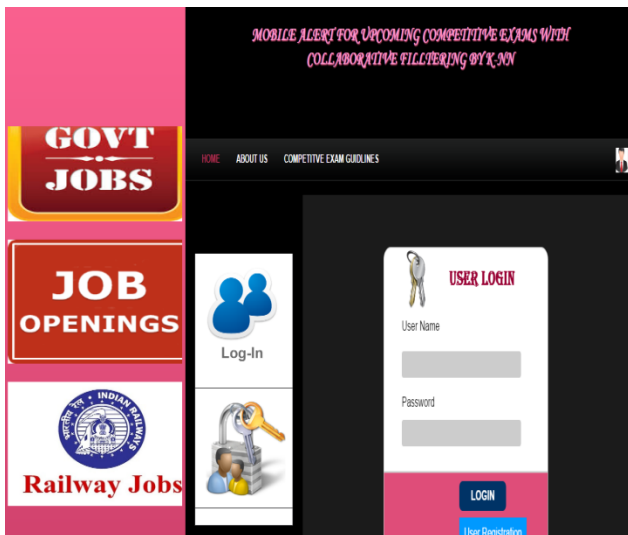
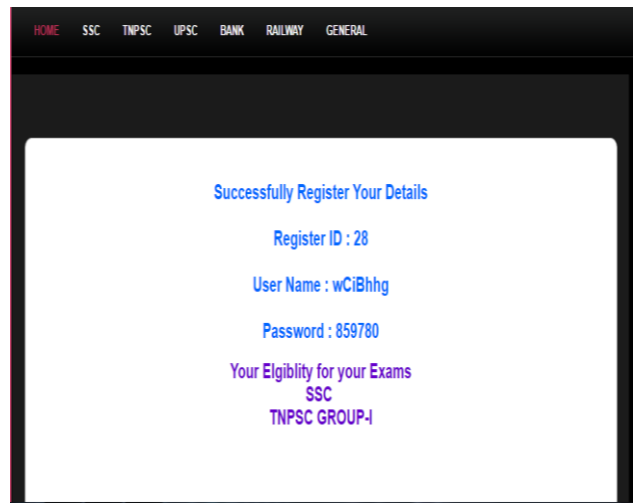
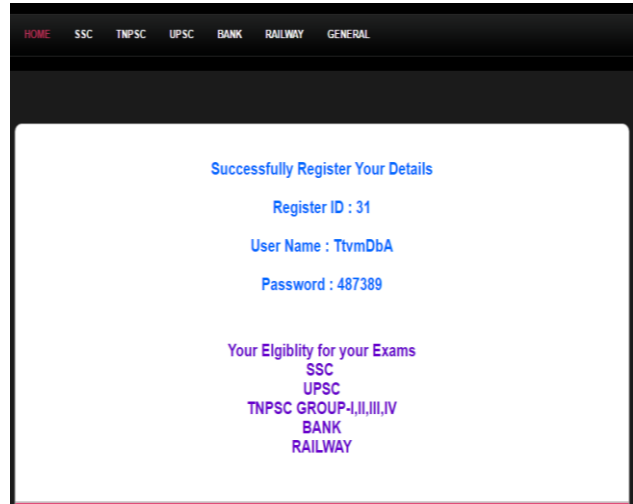
- Information Alert Module

This module is used after the process of collaborative filtering; it is for user to get information about our eligibility of exams with mentioning the date in the SMS from the admin. While it is used to provide information to the user that there are eligible candidate for writing these exams also. If the user interested to appear send back an SMS to an admin.

- SMS Alert

In this system the sms alert might be send to an user with accurate date before 2days of the examination for remind the candidate.

## 2. Result And Output



**REGISTRATION**

Register Id: 31, Name: roobha g

Gender:  Female  Male, DOB: 16.07.1994

Religion: Hindu, Caste: OBC

Address: 63 khaniyan mettu street, City: Teichy

Phone: 9442602764, LandLine:

**QUALIFICATION**

SSLC: ANNES, HSC: annes, UG: BCA, PG: MCA

SSLC Marks: 87, HSC Marks: 75, UG Marks: 83, PG Marks: 80

Upload Your Photo:  photo001.jpg, Upload Your signature:  photo001.jpg

RAILWAY JOBS DETAILS

JOB ID	Date	Railway Zone	Name of the Posts	No-of-Vacancies	Last Date	Manage
1	15-02-2017	Indian Railways	RRB Recruitment	150	09.02.2017	<input checked="" type="checkbox"/> <input type="checkbox"/>
2	28-02-2017	Chennai Railway	Clerk Railway	150	23.02.2017	<input checked="" type="checkbox"/> <input type="checkbox"/>
3	08-03-2017	North Central Railway	ITI Apprentices	400	17.03.2017	<input checked="" type="checkbox"/> <input type="checkbox"/>
4	08-03-2017	Railway Energy	Deputy General Manager (Electrical)	500	30.03.2017	<input checked="" type="checkbox"/> <input type="checkbox"/>
5	08-03-2017	RITES Limited	Manager (E&S, Logistics)	150	10.03.2017	<input checked="" type="checkbox"/> <input type="checkbox"/>

## IV. CONCLUSION

Exam DATE alert system with SMS and E-MAIL is an innovative addition to the education sector, as it makes the availability of results and book materials a lot easier and efficient. Security is associated with user authentication by sending sms notifications. Also it sends Email and SMS to the registered users in education sector.

## V. REFERENCES

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