



# Consequence Investigation regarding Individual Utilizing Fluffy Matrices

Kalyani Thakare<sup>1</sup>, Kalyani Patil<sup>2</sup>, Dipali Thorat<sup>3</sup>, Prof.G.M.Poddar<sup>4</sup>

UG Student, Dept. of Computer, Gangamai College of Engineering, Nagaon, Maharashtra, India<sup>1,2,3</sup>

HOD, Dept. of Computer, Gangamai College of Engineering, Nagaon, Maharashtra, India<sup>4</sup>

**Abstract**— The Analysis of Result System for an Organization” is an application software to be developed for the colleges to analyze the result of various exams to be conducted by the N.M.U. The college has to analyze these results in various angles to evaluate the performance of students, calculate the number of students eligible to admit to the next year, topper of the every year and many more. Fuzzy set hypothesis was proposed by Lotfi A. Zadeh also, has been discovered broad applications in different fields. The idea of instability was talked about by utilizing fluffy grids. All through this article indicates the unit interim, as a fluffy Interval. Additionally all fluffy grids are networks however every grid is not fluffy as a rule. We examinations the consequences of three understudies utilizing Fuzzy Matrix Solution (FMS) with the assistance of result of fluffy networks. Under normal network increase this is not a fluffy network, with the goal that we have to characterize good operation analogs to item that the item again happens to be a fluffy network by presenting max-min operation and min-max operation. At long last we finish up the after effects of three understudies as pass or come up short utilizing fluffy lattice.

**KEYWORDS** - FMS, visual basic, indication relation, max-min operation.

## I. INTRODUCTION

“Analysis of Result System for an Organization” is an application software to be develop for the colleges to analyze the result the of various exams to be conducted by the North Maharashtra University. The application that is going to be developed, will enable users to calculate the number of students who could admit to the next year, determine the topper from every class, generate the statistical report of the overall analysis, reduce the human power involved in conventional result analysis system and change your working strategy into trouble free, paperless management. Student Result Analysis system is used for the Students and the faculty to have an easy access for viewing the marks. This system deals with the result details of the Students. It comprises of the student PRN, Name, Marks Obtained, Total, Average, Percentage, Grade etc. It can be accessed by the teacher or the faculty members who alone can analyse the marks of the students, it is also duty of the faculty to distribute the records maintain the records. understudies assume a noteworthy part in Educational field. Understudies are assessed under distinctive classes: By picking their establishment, concentrate well, increasing great learning, and getting great imprints. Result investigation of every understudy prepares for their advanced education and also their change in future. Rate marks preceding the evaluation plan were changed over into evaluations for simplicity of examination.

The unwavering quality of the new plan was again examined utilizing measurable examination of information got from both the old and new plans. Some evaluation plans utilize a reviewing classification record (GCI) rather than genuine imprint for every appraisal model. GCIs ordinarily have a littler number of choices to browse when granting results. For instance, the GCI may have eight levels with the most elevated being honored to extraordinary understudies and the least being granted to understudies of deficient execution. This lessened level of classifications has been appeared to result in less variability between assessors contrast with frameworks which utilize checking extents somewhere around 0 and 100. The understudies' Results are investigated utilizing Fuzzy Matrix Solution (FMS).

In this paper, we are examining the consequences of understudies utilizing fluffy network with the assistance of result of fluffy lattices by presenting max-min operation and min-max operation. At long last we reason that the understudy's Result is Pass or Fail.

In this Section we review a fundamental's portion properties about fluffy grids and operations utilizing them.

## II. LITERATURE SURVEY

Inspired by the necessity to analyze the results displayed by N.M.U. that are initially in the PDF files, there is no standard automated system is introduced till the date as per the survey of various colleges under N.M.U. The Fuzzy Matrix Solution (FMS) is used for analyzing results, after collecting data at institute level – to enter marks of students in the format of matrix [1]. The information of students, faculty, exam section, training and placement etc. are managed over the college website – maintained by college admin [2]. The Data Analysis and Result Computation (DARC) provides student information based on the age-group, religious as well as regional population and classifies students into various academic sessions [3].

### A. Definition 1

Let X and Y be two fuzzy matrices, we define the addition of fuzzy matrices as follows.

$$X+Y = \max \{X, Y\} \text{ or } \min \{X, Y\}.$$

Similarly  $\min \{X, Y\}$  can be obtained.

### B. Definition 2

The Product of two fuzzy matrices under usual matrix multiplication is not a fuzzy matrix. So that we need to define compatible operation analogs to product that the product again happens to be a fuzzy matrix. However even for this new operation if the product XY is to be defined we need the number of columns of X is equal to the number of rows of Y. The types of operations which can have are max-min operation and min-max operation.

## III. PROBLEM DEFINITION



Proposed System encompasses study of present system thus finding out Drawbacks of the System, Requirement Analysis, Planning and Scheduling, Design Development ,Testing, Installation trails runs with small pieces of live data and training the user to use and also to maintain the system for better use.

The Proposed System act as a measuring tool to study the student performance under various criteria and plays a major role in decision making Process. The Proposed maintains consistency of data throughout the system. It contains normalize data which is easy to store and retrieve from. It can generate subject wise report, percentage wise report, overall report of the class, overall pass in each subject reports and statistical representation for every report that are beneficial to the organization in taking the actions. It is secure and fast. The proposed system will require less manpower.

RESULT STATUS	CORRESPONDING MARKS
Credits < 4.75	Fail
4.75 < credit < 6.75	Pass Class
6.75 < credit	First Class

**IV. PROPOSED SOLUTION**

**THE ALGORITHM AND DATA PREPARATION**

Considering,

M – Crisp set of all Marks,

R – Set of Results,

W- Set of all Students.

Consider  $M = \{M1, M2, M3\}$

Where,

M1 - Marks of Subject I

M2 - Marks of Subject II

M3 - Marks of Subject III

Consider  $R = \{R1, R2, R3\}$

R1 - Above Average ( $\geq 80$ ).

R2 - Above Average (50-79).

R3 - Below Average ( $< 50$ ).

Let  $S = \{S1, S2, S3\}$  set of three Students for testing this model.

The algorithm used in the analysis of the result system includes the following steps:



1. Download the examination result uploaded by university, which is initially in the PDF form and save it in your system.
2. Use the PDF manipulation tool for manipulating these saved files, without altering its changes into the database.
3. Apply the queries for retrieval of the desired form of report.
4. Save the output i.e. report into the database.
5. Mail the report to the remote server/higher authority.

#### **V. EXPECTED RESULTS**

- Analyzes the results of NMU Students.
- Number of students fail.
- Number of students entered through the next year.
- Stores all the documents.
- Fees receipts.
- Academic Status.
- Degree Certificates, etc.

#### **VI. CONCLUSION**

- The result analysis system is improving CGPA pattern markings memo from extracting PDF to Database so, user can easily sort out various functions like calculating CGPA, pass percentage, sending email to the remote server etc. Also accuracy is better than existing method. In future it may be helpful for all universities of result analysis system. From these Indications relations we may draw the following conclusions: If  $R_1$  and  $R_2$  is maximum, we conclude that the Student facing success in Examinations. (i.e) The Result of the Student is Pass. If  $R_3$  and  $R_4$  is maximum, we conclude that the Result of the Student faces the Failure in Examination (i.e) The Result of the Student is Fail. Using Visual Basic we develop software to calculate Fuzzy relation. After collecting datas we have to entered the Performance of students marks in matrix  $R_s$  observed from each individual student. The software calculates from  $R_1$  to  $R_4$  gives the status of Results of the students.

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