Analysis of Women Harassment inVillages Using CETD Matrix Modal

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Abstract-It is commonly understood that misbehavior intends to upset .Law says ,the repeated intentional misbehavior towards women is an offensive. The main concept of this paper can find something interesting that will make us reflect on what is done by women's rights and gender equality. To solve such problem, in this paper we are interested to adopt CETD matrix.

Keywords - ATD Matrix, RTD Matrix, CETD Matrix, Women harassment.

I. INTRODUCTION

Women within this world play an important role in society than men and in some cases, are the only family provider. Searching, reading and deepening on the subject. Sometimes we think, what is the current situation in relation to gender equality? Coincidence or causality of life. Because there is still a significant inequality, more than we imagine or think, Everywhere there is still a work to be done, there is still a children who have no access to basic education about harassment.This paper ,we apply the four types of harassment by using CETD modal to find out the hump age of group of women get harassed.In final,we derived conclusion and gives suggestion based on our study.

Formula-Let$\mu_j$denotes Meanand $\sigma_j$denotes Standard Deviation then usingμ_j of each jth column and σ_j of the each jth column we chose a parameter α from the interval [0, 1] and the Refined time dependent matrix(RTD matrix),
Using the formula
If $a_{ij} \leq (\mu_j - \alpha* \sigma_j)$ then e_{ij} = -1 else
if$a_{ij} \in (\mu_j - \alpha* \sigma_j, \mu_j + \alpha* \sigma_j)$ then e_{ij} = 0 else
if$a_{ij} \geq (\mu_j + \alpha* \sigma_j)$ then e_{ij} = 1

We redefine the ATD matrix into the Refined time dependent fuzzy matrix for here the entries are -1,0 or 1. Now the row sum of this matrix gives the maximum age group.

II. DESCRIPTION OF THE PROBLEMS

Estimation of maximum age group of women getharassed using 7×4 matrices:

In this section we apply 4 types of harassment

H_1 - Psychological harassment

H_2 - Sexual orientation harassment

H_3 - Cyber harassment

H_4 - Workplace harassment

Table 1: Initial raw data matrix of women get harassed order 7×4

Age	H_1	H_2	H_3	H_4
10-18	7	7	9	8
19-24	8	9	8	9
25-29	9	6	7	6
30-39	7	4	6	7
40-48	8	7	5	5
49-54	6	6	6	4
55-69	2	4	3	4

Table 2: Initial ATD matrix of women get harassed order 7×4

Age	H_1	H_2	H_3	H_4
10-18	0.777	0.777	1	0.888
19-24	1.333	1.5	1.33	1.5
25-29	1.8	1.2	1.4	1.2
30-39	0.7	0.4	0.6	0.7
40-48	0.888	0.777	0.555	0.555
49-54	1	1	1	0.666
55-69	0.4	0.8	0.6	0.8

Table 3: Mean and Standard Deviation of the above given ATD matrix.

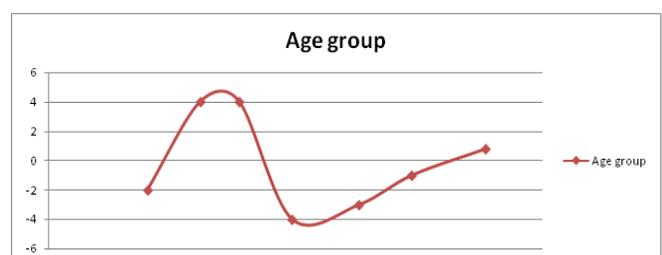| Mean	0.985	0.922	0.926
Standard deviation	0.4586	0.3529	0.3534

We have taken the value α=0.4, α=0.5 and α=0.6

The RTD matrix for α=0.4   Row sum matrix

$$\begin{bmatrix} -1 & -1 & 0 & 0 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ -1 & -1 & -1 & -1 \\ 0 & -1 & -1 & -1 \\ 0 & 0 & 0 & -1 \\ -1 & 0 & -1 & 0 \end{bmatrix} \quad \begin{bmatrix} -2 \\ 4 \\ 4 \\ -4 \\ -3 \\ -1 \\ -2 \end{bmatrix}$$

Graph 1: Interpreting maximum age group of women get harassed α=0.4

The RTD matrix for α=0.5

$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ -1 & -1 & -1 & -1 \\ 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & -1 \\ -1 & 0 & -1 & 0 \end{bmatrix}$$

Row sum matrix

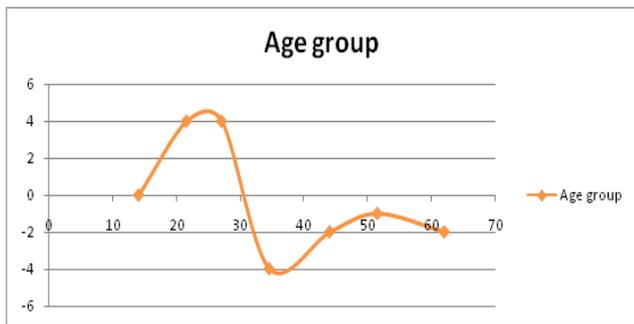$$\begin{bmatrix} 0 \\ 4 \\ 4 \\ -4 \\ -2 \\ -1 \\ -2 \end{bmatrix}$$

The CETD matrix

$$\begin{bmatrix} -1 & -1 & 0 & 0 \\ 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 \\ -3 & -3 & -3 & -2 \\ 0 & -1 & -3 & -3 \\ 0 & 0 & 0 & -3 \\ -3 & 0 & -3 & 0 \end{bmatrix}$$

Row sum matrix

$$\begin{bmatrix} -2 \\ 12 \\ 12 \\ -11 \\ -7 \\ -3 \\ -6 \end{bmatrix}$$

Graph 2: Interpretingmaximum age group of women get harassed α=0.5

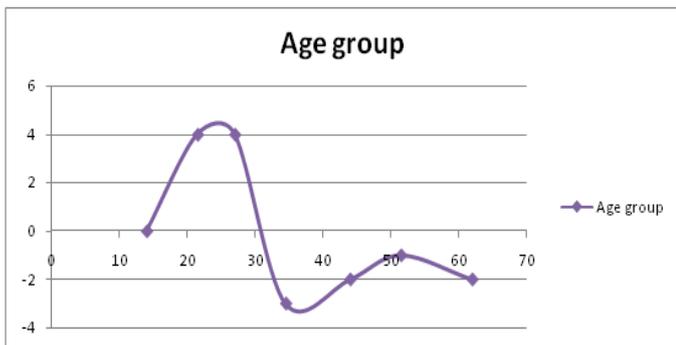**III. CONCLUSION**

The harassment starts at the age of 14.The maximum age group of women get harassed between the age 21 to 27. It happens only due to the lack of awareness. Suggestions for teens: Protecting oneself by being aware of harassment. Knowledge of the law. Developing sufficient skills to handle in that situations. When teens begin to work, it should be made sure the staff knows that there is a "zero tolerance" for sex discrimination in NRCS. Be observant, notice what is going on in office and try to avoid unwanted persons. Be ready to speak up on your behalf. Children (he/she) using network, must be taught how to use and what to watch, Because many kinds of problems start here. Talk to and educate children (he/she)about harassment.

The RTD matrix for α=0.6

$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ -1 & -1 & -1 & 0 \\ 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & -1 \\ -1 & 0 & -1 & 0 \end{bmatrix}$$
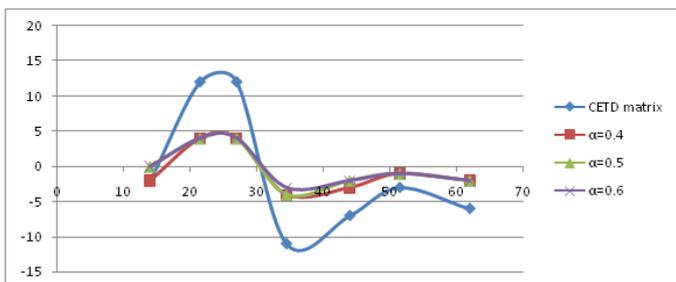
Row sum matrix

$$\begin{bmatrix} 0 \\ 4 \\ 4 \\ -3 \\ -2 \\ -1 \\ -2 \end{bmatrix}$$

Graph 3: Interpretingmaximum age group of women get harassed α=0.6

IV. SUGGESTIONS FOR PARENTS

When teens begin to work: Atmosphere of the place ought to be checked when applying for a job; It should be noted how employees are treated. The difference between flirting (enjoyed by both parties) and harassment (unwelcome sexual comments or physical contact) must be explained An order unrelated to the ward job must be refused; for instance, one can't be compelled by the supervisor to travel with him unless it's explicitly part of the job When being harassed by someone, she should be taught to handle the situation.

Graph 4: Interpreting maximum age group of women getharassedfor CETD matrix

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