

AN APPLICATION OF SOFT SETS IN A DECISION MAKING PROBLEM

PROJECT REPORT

Submitted by

G.MONISHA

Register No: 43220U25002

Of

RAAK ARTS AND SCIENCE COLLEGE

(Affiliated to Thiruvalluvar University)

Perambai-605 110



Under The Guidance Of

Miss. P.PADMAPRIYA, M.Sc.,M.Phil.,
Assistant Professor

In Partial Fulfillment of the Requirement for the Award of the Degree

of

BACHELOR OF SCIENCE

A Project Report Submitted to the

THIRUVALLUVAR UNIVERSITY

VELLORE



APRIL 2023



John

PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
PERAMBAL.



THIRUVALLUVAR UNIVERSITY VELLORE

BONAFIDE CERTIFICATE

This is to certificate that the project entitled **AN APPLICATION OF SOFT SETS IN A DECISION MAKING PROBLEM** Submitted in partial fulfillment of the award of degree of Bachelor of Science under my Guidance is a bonafied work done by **Ms. G. MONISHA** Register No: 43220U25002

P. Padmapriya

Head of the Department

Miss. P. PADMAPRIYA, M.Sc., M.Phil.,
Assistant Professor

Department of Mathematics

Raak Arts and Science College, Perambai

Submitted For the Viva-Voce Examination Held On 04/05/23

A. Saravanan
4.5.23

Faculty Guide

Mr. A. SARAVANAN, M.Sc., B.Ed., PGDCA,

Head of The Department

Department of Mathematics

Raak Arts and Science College, Perambai

Submitted For the Viva-Voce Examination Held On 04/05/23

INTERNAL EXAMINAR

A. Saravanan
4.5.23

Mr. A. SARAVANAN, M.Sc., B.Ed., PGDCA,

Head of The Department

Department of Mathematics

Raak Arts and Science College, Perambai

EXTERNAL EXAMINAR

R. Shunmugathal
4/5/23

Dr. R. SHUNMUGATHAL M.Sc., M.Phil., Ph.D.,

Assistant Professor

Department of Statistics

Arignar Anna Govt. Arts College

Villupuram - 605 602

Jam.

PRINCIPAL

RAAK ARTS & SCIENCE COLLEGE

VILLIANUR POST-605 110

PERAMBAL.



CONCLUSION

With the knowledge in set theory, one can use the rough set theory to predict the possibility of business crash.

Soft set theory is used for data analysis and also decision making in Bioinformatics domain.

Using adequate parameters membership is decided in soft set theory.

Equivalent classes concept is used by rough set theory while the grade of membership is used by fuzzy set theory.

A soft set is a parameterized family of sets – intuitively, this is “soft” because the boundary of the set depends on the parameters.

In this present project, here using the theory of soft sets to solve a decision making problem using rough mathematics.




PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
PERAMBAL.

A STUDY ON SMOKING PROBLEM USING FUZZY MATRIX METHOD

PROJECT REPORT

Submitted by

H.RADHIKA

Register No: 43220U25003

Of

RAAK ARTS AND SCIENCE COLLEGE

(Affiliated to Thiruvalluvar University)

Perambai-605 110



Under The Guidance Of

Miss. P.PADMAPRIYA, M.Sc.,M.Phil.,

Assistant Professor

In Partial Fulfillment of the Requirement for the Award of the Degree

of

BACHELOR OF SCIENCE

A Project Report Submitted to the
THIRUVALLUVAR UNIVERSITY
VELLORE



APRIL 2023



PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
PERAMBAL.



THIRUVALLUVAR UNIVERSITY VELLORE

BONAFIDE CERTIFICATE

This is to certificate that the project entitled A STUDY ON SMOKING PROBLEM USING FUZZY MATRIX METHOD Submitted in partial fulfillment of the award of degree of Bachelor of Science under my Guidance is a bonafied work done by Ms.H.RADHIKA Register No: 43220U25003

[Signature]
4.5.23

Head of the Department

Mr. A. SARAVANAN, M.Sc., B.Ed., PGDCA,
Head of The Department

Submitted For the Viva-Voce Examination Held On
Raak Arts and Science College, Perambal

[Signature]

Faculty Guide

Miss. P. PADMAPRIYA, M.Sc., M.Phil.,
Assistant Professor

Department of Mathematics
Raak Arts and Science College, Perambal 04-05-2023

INTERNAL EXAMINAR

[Signature]
4.5.23

Mr. A. SARAVANAN, M.Sc., B.Ed., PGDCA,

Head of The Department
Department of Mathematics

Raak Arts and Science College, Perambal

EXTERNAL EXAMINAR

[Signature] / 4/5/23

Dr. N. S. JAGANNATHAN, M.Sc., M.Phil., Ph.D.,

Assistant Professor
Department of Mathematics
Angner Anna Govt. Arts College
Villupuram - 605 602



[Signature]
PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
PERAMBAL.

CONCLUSION:

It is observed that the CETD graph that most of silk weavers become bonded labourer at the age group of 21-40 followed by 41-50. From the above analysis, we observe that the maximum age group of people become bonded has not changed with the change in the value in the value of the parameter from 0 to 1. Poverty and modernization are found to be the main causes for these two groups to become bonded labourers. The ATD matrix shows that, agriculture failure does not contribute to make them bonded labourers. Bonded labourers are doubly affected people for the advent of globalization (modern textile machinery) has denied them small or paltry amount which they are earning in peace as none of them had knowledge of any other trade. It is high time government takes steps to revive the life of weavers who work as bonded labourers by training and giving them some job opportunities.

From the above figure 3.1 – 3.5, it is clear that maximum age group of cigarette smokers has not changed with the change in the parameter α , $0 \leq \alpha \leq 1$. In the above figures, it can be easily seen that maximum age-group when people start smoking lie between age of 22 to 28, because of stress, misinformation, self meditation, advertising etc., The group for CETD matrix also gives the same result. Also it can be seen that at the age-group 30 to 35 the row sum matrix gives negative value; it means that very few peoples start smoking at this age due to said attributes. The main motivation to work on this problem is that by knowing the maximum age group at which people start smoking, the government at least can take steps to resolve this problem.



PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
PERAMBAL.