

CONTENTS

<i>Chapter</i>		<i>Page no</i>	
Chapter-1	1	Introduction	10
	1.1	Fundamental Analysis	11
	1.2	Technical Analysis	12
	1.2.1.	Technical Indicator	12
	1.2.1.1	On Balance Volume	12
	1.2.1.2	Accumulation / Distribution line	13
	1.2.1.3	Average Directional Index	13
	1.2.1.4	Aroon Indicator	13
	1.2.1.5	MACD	14
	1.2.1.6	Relative Strength Index	14
	1.2.1.7	Stochastic Oscillator	14
	1.2.1.8	R-Squared	15
	1.2.1.9	Demand Index	15
	1.2.1.10	Positive Directional Indicator(+DI)	15
	1.2.1.11	Negative Directional Indicator	16
	1.2.1.12	Price Channal	16
	1.2.1.13	Moving Average	16
	1.2.1.14	Simple Moving Average	16
	1.2.1.15	Exponential Moving Average Calculation	17
	1.3.	Machine Learning Methods	17
1.4	Problem Statement.	17	
1.5.	Project Objective	18	
Chapter-2	2	Fundamental of Fuzzy Logic	19
Chapter-3	3	Literature Survey	24
	3.1	Agent Based Model	25
	3.1.1	Multi Agent Integration	25
	3.2	Artificial Network Approach	26
	3.3	Adaptive Neuro-Fuzzy Inference System	28
	3.4	Fuzzy Rule Based System	29
Chapter-4	4	Proposed Model	31
	4.1	Design of Fuzzy Rule Based System for Decision Making in Share Market.	32
	4.2	Historical Data Set Description	33
	4.3	Technical Analysis Module	33
	4.4	Fuzzification Module	33
	4.5	Fuzzy Inference System.	33
	4.6	Fuzzy Rule Set	34
	4.6.1	Decision Table	34
	4.6.2	Extract Fuzzy Rules from Decision Table	37

Chapter-4	4.7	Defuzzification	38
	4.8	Decision	39
Chapter-5	5	Experimental Result	40
	5.1	Input and Output Variable	41
	5.2	The membership function	42
	5.3	Fuzzy Rules set	43
	5.4	Rule Viewer	44
	5.5	System Result	45
Chapter-6	6	Conclusion and Future work	46
	6.1	References	48

List of Tables & Figures

List of Table

Table	Description	Page No.
1	Fuzzy Implication Operators	22
2	Data Set	35
3	Merge Data set	36
4	Final Decision Table	36
5	System Test Result	45

List of Figures

Figure	Description	Page No.
1	Connection weight between nodes	27
2	2-Hidden layer network with n inputs and 1 output.	27
3	The equivalent ANFIS structure.	29
4	Fuzzy controller	29
5	Fuzzy rule based system for decision making in share market	32
6	General structure of a decision table	34
7	Input and output variable	41
8	The membership function	42
9	The rule editor	43
10	The rule viewer	44