

# Contents

<b>CHAPTER-1 .....</b>	<b>1</b>
<b>1. INTRODUCTION.....</b>	<b>1</b>
1.1. Introduction.....	1
1.2. The Mexican Financial Crisis of 1994-95 .....	2
1.3. East Asian Financial Crisis of 1997-98 .....	4
1.4. The Global Financial Crisis -2008-09.....	6
1.5. Impact of the Global Financial Crisis on Indian Economy.....	8
1.6. Macroeconomic Anatomy of the Global Financial Crisis.....	11
1.7. Behavioral Economics and the Subprime Crisis.....	13
1.8. Can Crisis Be Predicted? .....	16
1.9. India as the Suitable Case for Study: Rationale.....	18
1.10. Structure of the Thesis .....	20
<b>CHAPTER-2 .....</b>	<b>22</b>
<b>2. LITERATURE REVIEW.....</b>	<b>22</b>
2.1. Introduction.....	22
2.2. What is a Financial Crisis? .....	23
2.2.1. Currency crisis .....	23
2.2.2. Banking crisis .....	25
2.2.3. Stock Market Crisis .....	26
2.3. Early Warning Systems, Need and Construction.....	31
2.3.1. Construction of EWS.....	32
2.3.2. Methodology adopted for developing EWS models.....	38
2.3.3. Shortcomings of Signal Extraction and Limited Dependent Variable models.....	51
2.3.4. Artificial Neural Networks as an alternative .....	52
2.4. Summary of Literature Review.....	53
2.5. Research Gaps.....	55
2.6. Research Questions.....	56
2.7. Objectives of the Study .....	56
<b>CHAPTER-3 .....</b>	<b>57</b>
<b>3. RESEARCH METHODOLOGY.....</b>	<b>57</b>
3.1. Introduction.....	57
3.2. Research Design.....	57
3.3. Research Framework .....	59
3.4. Research Hypothesis.....	60
3.5. Data and Sources.....	62
3.5.1. Data for the study of prediction of banking crisis .....	62
3.5.2. Data for the study of prediction of stock market crisis .....	67

3.6. Analytical Tools and Techniques.....	69
3.6.1. Methodology for study of banking crisis .....	70
3.6.2. Methodology for the study of stock market crisis.....	83
<b>CHAPTER-4 .....</b>	<b>96</b>
<b>4. DATA ANALYSIS AND RESULTS.....</b>	<b>96</b>
4.1. Introduction.....	96
4.2. Analysis on Indian Banking Crisis .....	96
4.2.1. Identification of banking crisis indicators -Signal Extraction approach .....	98
4.2.2. Identification of banking crisis indicators -multivariate Logit model .....	105
4.2.3. Identification of banking crisis indicators – Artificial Neural Networks .....	110
4.2.4. Critical variables using feature selection in ANNs .....	114
4.2.5. Comparison of predictive power of dynamic and static Logit models.....	119
4.3. Analysis on Indian Stock Market Crisis .....	138
4.3.1. Predictive power of macroeconomic and financial variables .....	140
4.3.2. Incremental predictive power of the sentiment variables on stock markets .....	142
4.3.3. Effectiveness of alternate models using sentiment variables .....	145
4.4. Hypotheses Testing .....	165
<b>CHAPTER-5 .....</b>	<b>167</b>
<b>5. FINDINGS, LIMITATIONS AND FUTURE SCOPE OF STUDY .....</b>	<b>167</b>
5.1. Summary and Discussion.....	167
5.2. Novelty of Research and Contribution to Knowledge .....	169
5.3. Relevance of the Study for Policy Makers and Investors.....	170
5.4. Limitations of the Research .....	171
5.5. Future Scope of Research .....	171
<b>REFERENCES .....</b>	<b>172</b>