ACKNOWLEDGEMENTS

With warm heart and immense pleasure, I praise and adore the Almighty for his gracious blessings to the successful completion of my research work.

It is needless to say that a work of this magnitude is seldom, the effort of a single person, but results from contributions of many over a period of time. During the course of such an effort, it is not uncommon that the researcher might tend at times to overlook the valuable inputs of all the persons who helped the study see the light of day because he realizes that there is an acute constraint on space to be taken into account.

During the course my research work in pursuit of my objective, I realized how important a guide, a friend and teacher could inspire you to work better, give more meaning to your thought and make your work more worthwhile.

Words would perhaps, be insufficient to express my deep sense of gratitude to my beloved research supervisor Dr.G.A.Ramachandra, Associate Professor, Head, Department of Computer Science & Technology, S.K. University, Anantapur, for his guidance, counseling, encouragement, noble thoughts and valuable suggestions at every level of preparation of Ph.D work. It has been a great pleasure and privilege to work under his guidance. His informal style and flexibility in approach immensely helped me to complete the work with lot of zeal and enthusiasm.

It is a great prerogative to express my profound gratefulness to my beloved Vice-Chancellor Prof.P.Kusuma Kumari, Sri Krishnadevaraya University and my beloved Prof.C.R.Visweswara Rao, Vice-Chancellor, Vikram Simahapuri University, Nellore for their blessings and encouragement for completion of this work.

I would like to express my gratitude to my beloved Prof. K.Ramakrishna Reddy and Prof. K.Suvarna Madam for their encouragement and timely help throughout my research work.

It is great privilege for me to express my gratitude to Prof. B. Sathyanarayana, Chairman, BOS, Department of Computer Science & Technology, S.K. University, Anantapur for his valuable suggestions and encouragement during my research work.
I am equally thankful to the Faculty members of Department of Computer Science & Technology, Dr. N. Geethanjali, Dr. T. Bhaskara Reddy, and Dr. M. Nagendra Associate Professors, Dr. V. Raghunatha Reddy and Ms. Kezia Rani Assistant Professors for their scholarly advice, great consolation and support through out the research work.

I take this opportunity to profusely thank IISC, Bangalore, with whom I interacted during the course of my research work and who generously permitted me to interrupt their work, and times to the extent of imposing myself on them.

I also express my gratitude and thanks to Prof. P. Md. Akhtar, Chairman, BOS, Dept. of Statistics, S.K.University, Prof. Y. Krishna Reddy, Director, IIIT, Idupalapaya, for their support and encouragement throughout my research work.

I am deeply indebted to Prof. L. Venugopal Reddy, former Vice-chancellor of Andhra University and Acharya Nagarjuna University, Prof. Ch. Ramaprasad Rao, Prof. M. Hampanna, Prof. K. Ramakrishna Reddy, Chairman, BOS, Member, Executive Council, Prof. C. N. Krishna Naik, Head, SKIM, Prof. B. Krishna Reddy, Regional Director, NCTE, Prof. P. Premchand Babu and Prof. K. Venugopal Rao, Prof. Anitha Kumari and Prof. B. R. Megha Raj for their cooperation and encouragement.

I am thankful to Prof. M. Jayaraj, Principal, S.K.University College, S.K.University, Anantapur for his cooperation.

I am indebted to Sri P. L. N. Reddy, Member, Executive Council, Prof. C. Sudhakar Members, Executive Council, Prof. T. Pullaiah, Prof. T. Sreenivasulu Reddy, Prof. V. Krishna Reddy, Prof. P. Ravindra Reddy, Prof. D. Chenna Reddy, Prof. V. Reddapa Reddy, Prof. A. V. Ramana, Dr. Somasekhar Reddy, Dr. Ravindranath, Deputy Registrar & OSD, S.K.University, Sri. M. Murali Mohan Reddy, Sri. D. Srinivasulu Reddy, Sri. Indranath Reddy, Mr. J. J. Solomon, Sri. K. Anand, Executive Engineer, Mr. Narendra Reddy, Inspector of Police for their exhortation guidance during the period of my research work.

I express my special thanks to my friends Dr. V. Raghunatha Reddy, Dr. M. V. Srinivasan, A. V. Sri Harsha, Mr. Dasthagiri Reddy, Mr. P. Chandra Sekhar, Mr. Diwakar, Mr. B. Raghuram, Mr. Raghuram, Mr. Ramprasad, Mr. Maruthi Prasad Reddy, Mr. Veerendra, Mr. Appi Reddy, Mr. Hari Mohan Reddy, Mr. Obulesu, Mr. Rama
Govinda Reddy, Mr. Murali, Mr.Omkareswar, and N.Vijaya Kumar who have provided me encouragement and support as and when I need to withstand in stress and strain.

I would like to express my sincere regards to my mother Smt. K.Ameena and father Late Janab K.Muskin Sab for inspiring me to bestow all my attention on the research work. I do gratefully cherish the love and affection of my parents whose blessings has constantly been steering me in my life and career from strength to strength with admiration and affection.

I vow my gratitude and thanks to beloved sisters K.Beebi, K.Asmath and Rajiya and Brothers K.Babu, K.Riyaz not only for their moral support in completing the research work but also for development of my career.

I take this opportunity to express my indebted gratitude and thanks to my cordial relative namely Dr.B.Akbar Saheb, M.S.,(Rtd), Akbar Eye Hospitals, Anantapur, Janab.G.Kullayappa, District Coordinator (Rtd),SBI, Dr.B.Reddy Saheb, Janab B.Bashu Sab, Janab B.Hyder Vali, Janab B.Mustafa, Janab B.Peeri Sab, cousins Dr.B.Aftab, Dr.B.Altaf, B.Shameer, B.Shahazeer, G.Babu and cousin brothers Dr.V.K.Aftab, K.Amanulla, K.Nazeer, K.Mahammad Rafi, Dr.Nabi Rasool and Janab Imam Sab, Dr.Jameela, Dr.Nazia, Dr. Sharmila who gave me support for my research work in various aspects.

I would like to express my deep sense of gratitude to my beloved Father-in-law Dr.D.Alimoul Ali, Reader in Botany(Rtd.,) and Mother-in-law. My sincere thanks to my Brother-in-law, Mr. Moula Ali Sajid, Software Engineer, IBM Computers, and Sister Nadira, Co-brother Babu, and my Sister-in-law who always encouraged me and supported me in completing my research work.

I express my thanks to Non-Teaching staff, A.Mallikarjuna, Jr.Assistant, S. Ramachandra, H.C. Obulesu, C.Nagabhushanam, Ramakrishna Reddy, Malli Reddy,

My sense of gratitude would be incomplete, if I do not thank my beloved wife K.Waheeda, and beloved children K.S.Abid Ali and K.Sohan Ali for their unstinted support and unflinching cooperation, silently bearing all the inconveniences caused to them in the process my research work.
Finally, I would thank all my relatives, friends and well wishers who directly or indirectly helped me during my research work.

However, I alone assume the complete responsibility for any errors that might have crept in or omission that was committed unconsciously.

Lastly and in no way least, I earnestly acknowledge my sincere thanks to all the authors and researchers listed in the bibliography whose ideas, concepts, definitions, and research findings helped me in understanding the concept, selection of research problem and analyzing the data.

...K.Hayaz