ACKNOWLEDGEMENTS

I express my deep feelings of gratitude to my guide respected Prof. Dr. P. Premchand, who generated in me a willpower to undertake this work, and took me under his highly experienced wings to guide, inspire and encourage to complete this work. It is only because of his constant encouragement, able guidance and deep knowledge of the subject, this thesis could see the light of this day.

I am thankful to Dr. K. Gangadhara Rao, Assoc. Prof. & Head of Computer Science and Engineering, Prof. I. Ramesh Babu, Chairman, PG Board of Studies in Computer Science and Engineering and Prof. K.Viyyana Rao, Vice Chancellor of Acharya Nagarjuna University for their cooperation and help.

I am grateful to Dr. K. Phaneendra Kumar, Dr. N. Gnaneswara Rao, Dr. T.V. Prasad and my colleagues for their encouragement and support.

I am happy in expressing my heartfelt gratitude to Dr. Lavu Rathaih, chairman, Mr. L. KrishnaDevaRayalu, Vice-chairman of Vignan’s Group for providing facilities to conduct my research work.

I express my deep sense of love to my parents Sri. Subrahmanya Sarma and Smt. Lalithamba, my wife Smt. PadmaSri, and my lovely cute children ChandraMouli and VedaSri whose support is immeasurable in successful completion of my work.

I express my thanks to all my friends, well wishers and all the researchers whose valuable inputs have helped me in carrying out this work.

- M. RaviSankar