ACKNOWLEDGEMENT

This work would not have been possible without whole-hearted support of many people. First and foremost I would like to thank my adviser, Prof. I. Ramesh Babu for his patience, guidance, and support.

I would like to thank Prof. A V Dattatreya Rao, Principal, University College of Sciences, ANU, for providing me an opportunity to carry out this research work in Acharya Nagarjuna university.

I would like to thank Dr. K. Gangadhara Rao, Head, Dept. of Computer Science and Engineering, Prof. I. Ramesh Babu, Dept. of Computer Science and Engineering and other members of the Department of Computer Science and Engineering for their invaluable suggestions on this research work.

Next, I would like to thank my friends for all their help and support during my research. I would like to express my sincere gratitude to my beloved parents who were beside me all the time.

I express my gratitude to the Management Committee of A.N.R.College, Gudivada for all their kindness.

I would like to thank research community in general, Acharya Nagarjuna University for providing the resources which made this research possible.

B. Raja Srinivasa Reddy