ACKNOWLEDGEMENT

It is a great pleasure to express my gratitude to all the people who extended their support of this thesis.

First and Foremost, I express my deep felt thanks to my research supervisor Dr. RM. Chandrasekaran, Professor, Department Of CSE, Annamalai University, Chidambaram for providing me an opportunity to do research. I thank him for his continuous guidance and support.

My sincere thanks to Dr. D. Govindaradjulu, Principal, Pondicherry Engineering College and Dr. V. Prithiviraj, Former Principal, Pondicherry Engineering College for their permission to carry out the research work in Mother Teresa Women's University.

I wish to express my sincere thanks to Dr. D. Loganathan, Professor and Head, Department of Computer Science and Engineering, Pondicherry Engineering College, Dr. P. Thambidurai, Professor and Principal, Perunthalaivar Kamarajar Institute of Engineering and Technology, Karaikal, Dr. K. Vivekanandan, Professor and Dr. N. Sreenath, Professor and Former Heads of the Department of Computer Science and Engineering, Pondicherry Engineering College for providing a peaceful working environment.

I am grateful to Dr. K. Saruladha, Assistant Professor, Dr. R. Kalpana, Associate Professor and Mrs. J. Jayabharathy, Assistant Professor, Department of Computer Science and Engineering, Pondicherry Engineering College for giving valuable suggestions.

I wish to express my thanks to Teaching, Non-Teaching and other Supporting Staff of the department of Computer Science and Engineering and
Department of Information Technology, Pondicherry Engineering College for their help during the research work.

I could not forget the invaluable help and support extended by Dr. S. Vijaya Bhanu, Assistant Professor, Annamalai University, Chidambaram and Dr. V. Govindasamay, Assistant Professor, Department of Information Technology, Pondicherry Engineering College

Words fail me to express my deepest thanks to all my friends and my colleagues for being a constant source of support and inspiration. Their unselfish cooperation and sharing have helped me to complete this work.

I deeply thank my Father Mr. A. Rajendren for his unending support, encouragement and prayers. It was his love that raised me up again when I got worn out. I also express my heartfelt thanks to my dear brothers and sister, for their moral support extended always.

I express my heartfelt gratitude to my beloved husband Mr. D. S. Kumar, who is always there cheering me up and stood with me through the good times and bad. He is always my inspiration and without his endless patience, help, understanding, and encouragement, I could not have completed this research work.

I am grateful to my son Krithik Kumar for his love and sacrifices.

Lastly, I thank the omnipresent God, for answering my prayers and giving me the strength to complete this research work.