... Acknowledgements ...

At the outset, I wish to pay my sincere homage to the ALMIGHTY without his blessing this task would not have been accomplished.

I am at a loss to find words to express my deepest gratitude to my intellectual and learned guide Dr. G.M. Deheri, Professor, Department of Mathematics, Sardar Patel University, Vallabh Vidyanagar for his invaluable guidance, constructive suggestions and encouragement during the tenure of my work. He worked with me from the beginning of this research and guided me through the entire process to completion. With the help of his patient mentoring and broad knowledge, I was able to deepen and broaden my own knowledge and leading to the completion of this research.

I wish to express sincere thanks to Dr. A.B. Patel, Professor & Head, Department of Mathematics, and Dr. S.J. Bhatt, Former, Professor & Head, Department of Mathematics, Sardar Patel University, Vallabh Vidyanagar for providing the facilities for the research.

I am highly grateful to the authorities of Sardar Patel University, Vallabh Vidyanagar for providing this opportunity to carry out the research work.

Sincere thanks are extended to all faculty members and other staff members of Mathematics Department, Sardar Patel University for their constant encouragement, help and guidance.

It is my immense pleasure to acknowledge my intimate, Mr. K.R. Trivedi, Head, Department of Physics, Shri R.K.Parikh Arts& Science College; Petlad for his selfless help.

I will always remain grateful to the Principal, Dr. V.S. Joshi, Shri R.K.Parikh Arts& Science College; Petlad for being considerate in permitting me to continue my research work.

I am deeply indebted to my sister Jigna and brother in law Harsit Kumar, for their invariable support throughout my work. I would also like to thank all faculty members and other staff members of Shri R.K.Parikh Arts& Science College; Petlad and my friends.
I express my deep gratitude to Miss Hitixa Shastri, Assistant Professor, Department of Computer Science, Shri R.K.Parikh Arts & Science College; Petlad for her constant encouragement and teaching me computer related works which was very much helpful in my research work. Without her this task was impossible to accomplish. She is source of my inspiration.

Heartly thanks are extended to all my friends, Mukesh Shimpi, Jimit Patel, Nitin Patel, Dr. Paresh Andharia, Dr. Rakesh Patel, Dr. Himansu Patel, Nimesh Patel, Nikhil Abhangi, Dr. Pragna Vadher, Shruti Mehta. From bottom of my heart thank to my father in law and mother in law. They remind me that there is always someone who is willing to hold out a helping hand no matter what may befall me. This means a lot to me.

Finally, I am fortunate to have encouraging son Sagar Shukla and a beloved wife, Ami Shukla, for their unwavering support throughout the research period. I cannot image who or where I would be if I had not always been able to count their unconditional support.

Mr. Snehal Shukla.