ACKNOWLEDGEMENTS

I express my deep sense of gratitude to my research supervisor Dr. Gurrala Venkateswara Rao, Associate Professor, Department of Information Technology, GITAM Institute of Technology, GITAM (Deemed to be University), for his insightful guidance, kind concern, infallible help, constant encouragement, and inspiration, without which this work might not have been completed.

I am grateful to Prof. K. Lakshmi Prasad, Principal & IRC Chairman, GITAM Institute of Technology, GITAM (Deemed to be University), for his guidance, motivation and timely help, because of which I have completed the work in time.

I acknowledge my sincere thanks to Dr. Konala Thammi Reddy, Professor and Head, Department of Computer Science & Engineering, Dr. Venkata Nageswara Rao Padmanabhuni, Dr. Tummala Sita Mahalakshmi, Dr. Giduturi Appa Rao, Dr. Rodda Sireesha, Dr. Konda Srinivasa Rao, Associate Professor, Department of Computer Science & Engineering, GITAM Institute of Technology, GITAM (Deemed to be University), for their kind cooperation in making this research work a success.

I am also indebted to my Family, friends, colleagues, and well-wishers whose support and affection strengthened me resolve my dream.

SRIDHAR GUMMALLA