

ACKNOWLEDGEMENT

The successful completion of any task would be incomplete, without the mention of people who are responsible for the completion of this work.

First and foremost, I express my deep sense of sincere gratitude to my research supervisor **Prof. B. Eswara Reddy**, Professor and Principal, Department of Computer Science & Engineering, JNTUACE, Kalikiri, Chittoor District, for his insightful guidance, priceless intellectual motivation throughout my work. I learnt many moral and ethical standards in academic and non-academic issues from him. He is truly a source of inspiration to pursue a research-oriented career. His guidance deserves much more than the credit on the successful completion of the thesis, and also for giving me an opportunity to implant my skills by providing the required help and co-operation to complete the report. I am indebted with a deep sense of gratitude for the constant inspiration and invaluable guidance throughout the work.

I wish to express my indebtedness to **Prof. K. Rajagopal**, Honorable Incharge Vice Chancellor, **Prof. D. Subba Rao**, Rector, **Prof. S. Krishnaiah**, Registrar, **Prof. K. Rama Naidu**, Director of Evaluation, **Prof. S.V. Satyanarayana**, Director, Research and Development, JNTUA, Ananthapuramu.

I have great pleasure in expressing my heartfelt gratitude to **Dr. C. Shobha Bindu**, **Dr. S. Vasundra**, **Dr. A. Ananda Rao**, Professors of CSE Dept., JNTUACEA and **Dr. Nagaratna P. Hegde** Professor of CSE Dept, Vasavi College of Engineering, Hyderabad for their constructive comments and scrutiny which enabled me in enhancing my work.

I wish to offer my sincere thanks to Jawaharlal Nehru Institute of Advanced Studies, Secunderabad and all faculty members of CSE Department of JNTUACE, Anantapur and ISE Department of SDM College of Engineering and Technology, Dharwad, Karnataka State, India for their support and encouragement.

Finally heartfelt thanks to my family members especially my husband **Mr. Shrikant**, son Master **Siddharth**, mother-in-law **Smt. Girija**, father **Shri. M. E. Appanna Rao Pawar**, mother **Smt. Rukmini Bai**, sister **Smt. Harineshwari**, **Shri. Nanda Kumar** without whose support and help I could not be what I am.