ACKNOWLEDGMENT

I owe with a deep sense to my research guide Dr. Ramesh R. Manza, who directed my research work with extreme competence, and gave me many useful hints, indications, suggestions, constructive proofreading and many truthful discussions without which I would not have been able to accomplish this thesis work. I am certain that I will help from his rigorous scientific approach, and the way of critical thinking throughout my future career.

I am highly thankful to Department of Computer Science and Information Technology Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for such a fruitful research environment.

I am also grateful to Dr. B. W. Gawali, Professor and Head, Department of Computer Science and Information Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for his encouragement and administrative help time to time.

I especially thank to Dr. S. C. Mehrotra, Dr. K. V. Kale, Dr. R. R. Deshmukh, Dr. S. N. Deshmukh, Dr. Pravin Yannavar, Dr. C. Namrata, Dr. Mukta Dhopeshwarkar, Dr. Seema Kawathekar, Dr. Sonali Kulkarni, Dr. Mansi Baheti, Dr. Sunil Nimbhore, and Mrs. Vaishali Ingle for their encouragement and kind support time to time.

I would like to thank non-teaching faculty members of the Department of Computer Science & Information Technology, Mr. B. R. Mahadik, Mr. S. Khoche, Mr. Sayed Khan, Mr. Vijay Jadhav, Mr. Dilip Pakhare, Mr. Bhagvan Nikalje, Mr. Sunil Bankar, Mr. Bapusaheb Bodkhe, and Mrs. Champabai G. Kasure. I would like to thank everyone those supported me knowingly and unknowingly.

Last but not least, without support of my family member, Father Dr. Shankar Gaikwad, Mother Mrs. Manik Gaikwad and my Sister Ms. Jyotsna Gaikwad who gave effortlessly their love, support and prayers throughout my academic career and for encouraging me.

Thank you all

MS. Sonali Shankar Gaikwad