Acknowledgement

There were a lot of people who supported me during my doctoral work at Tezpur University. I would like to thank everyone who assisted me in any kind of way while carrying out this work.

First and foremost, I would like to express my sincere thanks to my supervisor Prof. Dhruba Kr. Bhattacharyya for his guidance, believe, feedback and encouragement. His direction and experience always helped me to work on new ideas for my research problems. He has always made himself available to discuss the problems I faced during my research period.

I also convey my heartiest thanks to my co-supervisor, Prof. Jugal Kumar Kalita, University of Colorado, USA, for all his help, support and valuable guidance in shaping my Ph.D thesis.

I would like to thank all my doctoral committee members at Tezpur University for their knowledgeable suggestions. My sincere thanks also goes to the faculty members and non-teaching staffs of the department, who helped me in some way or the other during my PhD period..

I would also like to thank Hasin Da and Nazrul Da for their continuous support and motivation. I would also like to mention the support I received from my departmental friends, Tulika, Rup Kumar, Hussain, Upasana during the course of my PhD. I would also like to thank my friend, Ravi Verma and his wife who had been a constant support during the course of my PhD. He always stood by my side to support and enlighten my spirit whenever I felt dejected. I would also like to thank my friend, Tanmay Dasgupta for encouraging me and supporting me during the last days of my PhD.

My sincere gratitude also extends to my family members for their love and support in every endeavour of my life. Without their support, it would not have been possible to complete this PhD. .

Lastly, I am very grateful to *God* for providing me the strength and motivation to accomplish my work.

Pooja Sharma