My name is Karan Sarkar. I have completed a dual major in Computer Science and Mathematics at Rensselaer Polytechnic Institute. I am at Georgia Tech to get a Master’s degree in Computer Science. I want to prepare myself for the Professional Environment. I am particularly interested in Machine Learning. I am really interested in learning how to design algorithms to fit different types of Datasets. I also want to learn how to choose which approach from many possible models. I am also interested in learning how deductive statistical based approaches can be fused with the current inductive based Machine Learning approaches. I find maximum likelihood and maximum entropy models to be very interesting. I want to know if there is some way to use supervised Machine Learning to uncover latent variables. I hope to expand my knowledge. Moreover I hope to be able to work on some interesting projects. In the past, I can implemented a calendar that can run on distributed systems using the Paxos algorithm. Moreover, I used a message passing based Graph Neural Network to act as a recommendation system. In my previous internship over the summer, I worked at a 3D Printing company. The Company’s main business was to manufacture 3D printers. I worked on the software that was packaged with the printers. I was able to use linear algebra and divide and conquer based algorithm on high dimensional spatial trees to dramatically improve performance. In another internship, I designed a machine learning algorithm that could predict which people were most likely to qualify for disability benefits.