My senior project was focused on Data Mining. The project I did was entitled Twitter Gender Determiner. Using Machine learning and data mining, I would have a program able to predict the gender of twitter users. Overall, I fell short of my expectations. I was not able to accurately predict the gender of users. The main change made to my project was the amount of data I would use per user. Originally I was going to use just a single tweet to predict the gender, but I changed it to use a group of tweets from the user. I feel the most important lesson I learned about my focus is which algorithm to use. While you could use any, certain algorithms are better designed for specific purposes. The most important lesson I learned from my application is about data. Make sure to have enough data and that the data is properly labeled. What I learned about myself is that I can be easily dissuaded from doing something when it does not seem enjoyable which did not help when trying to label all my data. My Final thoughts are that if I had been more diligent earlier I would have done a much better project in the end and that saving work for the end is not the best idea.