Algorithm Implementation

For this project we chose to use a Naïve Bayes algorithm in order to recommend anime to the user. Using our tables we are able to create a matrix of anime that the user has seen ands which genres they fit into. With this we have a good basis to start our Naïve Bayes. We can use the anime that they have already watched and to predict how they would feel about other anime. We used sklearn to test out Naïve Bayes with both a Bernoulli distribution and a Gaussian distribution in order to classify which rating an anime may receive. Using this method we found that we could use sklearn to classify our data and also use a distance measurement in order to determine how accurate our prediction was.

Our biggest choice on implementation would have to be between a Gaussian distribution and a Bernoulli distribution. We decided between the two by comparing them side by side by testing with a single user. In the end Bernoulli tested better, which makes sense given the 1/0 formatting of our features table.