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## Ethics Considerations

There are not many ethical considerations to account for in the three projects I have chosen, Boxing win rate based on stance and knock out percentage, SQL database for CVS type pharmacy, and drinking game survey visualizations. For the first project on boxing win rate some ethical considerations may be how boxers adjust their training based on this projects findings. Essentially, I found that win rate is positively correlated with stance and knock out rate. With knock out rate this is straight forward as many knockouts typically indicate many wins in those relative fights. Southpaw stance, which is simply a left-hand boxer's stance could play a role in ethics. Based on the findings it is better to fight with the southpaw of lefty stance as KO rate is positively correlated. This leads to the consideration of teaching right-handed boxers or orthodox stance boxers to learn southpaw and implement this technique in fights. This isn't ethically wrong in the traditional sense of the word, but is something to take note of. Is it ethically ok to force boxers to fight and train with their non-dominant hand? With beginners probably not but with pro boxers who want to learn the technique there is a positive correlation that should be considered when training.

For the second project on the SQL database for the CVS pharmacy type store customer information such as first and last names, addresses, and credit card information are tied to the store and pharmacy section and theoretically could be traced to certain medications and prescriptions. This raises some concerns over HIPPA laws and credit card theft. People that work in the store or have access to this database could steal credit card information and impersonate certain customers using their card numbers to buy things online for example. There is also the consideration of pharmacists breaking HIPPA laws and telling people about customers medications and what they are prescribed. Hopefully, most of these systems are encrypted in a way that protects this information. However, there is really know way to ensure that a pharmacist doesn't break HIPPA laws.

For the third project on the drinking game survey data, no names or email addresses were tied to the data collected. The only distinguishable trait was gender which is hard to trace back to a certain individual. Most of the results were simply on the popularity of drinking games here at W&L, and survey questions were asked on a 7-point Likert scale to develop an accurate ranking system. There are really no ethical concerns here even in the final findings which showed beer pong as the favorite drinking game by far. This was simply an informative survey to show what games W&L students like the most and play the most. There was no quantifiable numeric amount tied to how much students play these games making it hard for certain metrics on unhealth habits to be shown resulting in some outside party taking action to limit participation in such games. For example the school taking action to limit how much students play these games might raise some ethical concerns,

however questions such as 'time spent playing these games' or 'how often do you play this game' was not asked.