**Lit Review and Research Question**

As we know binary logistic regression is “to predict whether something is true (1) or false (0).” [1] The dataset that I chose explains the gang database from the Chicago Police Department and the dataset is from ProPublica. This dataset caught my interest because I live in a suburb right outside of Chicago and I know a couple of police officers that work for the Chicago Police Department, so I have heard of the threats that these gangs pose around the Chicago area.

My dataset tells me the age, race, gang associated with, and the specific gang members first arrest. This dataset records all of the gang members that the Chicago Police Department have come into contact with so there are most likely many more gang members roaming around the city of Chicago.

Questions:

1. The first question I want to know is how many gang members are in a specific gang compared to all of the other gangs such as making Four Corner Hustlers true (1) and the resto of the other gang members false (0).
2. Another question is to find the probability of all the gang members that are from the white ethnicity.
3. Lastly, the third question is to also find the probability of the age of the gang members that are younger than 20 years old.

These questions will give me a good idea of who is incorporated with gangs and what kind of people they are regarding ethnicity, race, and when they were arrested.

Reference List

[1] Rasool, Rahim. 2020. “Logistic Regression in R.” *Data Science Blog | AI, ML, Big Data Analytics* Data Science Blog | AI, ML, Big Data Analytics. Retrieved October 6, 2020 from <https://blog.datasciencedojo.com/logistic-regression-in-r-tutorial/>.

[2] Stodolska, Monica. 2009. “Gangs of Chicago: Perceptions of Crime and its Effect on the Recreation Behavior of Latino Residents in Urban Communities. Retrieved October 6, 2020 from <https://www.tandfonline.com/doi/full/10.1080/01490400903199773>.

[3] Thrasher, Frederic M. *The Gang.* 1963. Retrieved October 6, 2020.

[4] Block, Carolyn Rebecca and Block, Richard. “National Institute of Justice.” *Street Gang Crime in Chicago.* Retrieved October 6, 2020.

[5] Hagedorn, John M. “Race Not Space: A Revisionist History of Gangs in Chicago.” *The Journal of African American History.* Retrieved October 6, 2020 from <https://www.journals.uchicago.edu/doi/abs/10.1086/JAAHv91n2p194?journalCode=jaah>.