**Week 2 - How Data Science is used in Industry, Government, and Academia**

**Post 2 different applications of data science and what skills you would need to obtain work in those areas.**

**I currently work in healthcare and the two applications that come to mind are:**

1. **Discovering new drugs**
   1. **Using artificial intelligence, data scientists can analyze huge amounts of data as well as design new molecules.**
2. **Wearable technology**
   1. **Using machine learning, applications can be created and utilized by both patients and doctors to monitor health and both predict when medical intervention is necessary and also provide suggestions to become healthier**

**Based on the AirBnB article, discuss how AirBnB trains its data scientists. Do you think that their approach is effective? Why or why not?**

**How does airBnB train its data scientists?** airBnB has monthly week-long bootcamps for both their new and current employees where they focus on their proprietary Rbnb package as well as the common data science packages like tidyr, dplyr, ggplot, and markdown.

**Is their approach effective?** They conducted a survey recently that showed 80% of their data scientists rated themselves closer to expert than beginner.

**Why or why not?** it allows employees who are not familiar with R to get up and running shortly (within a few hours). Then they can take advantage of sponsorships to datacamp and mentors. They also said that data scientists who have never opened R before can soon become able to teach new recruits.

**Based on the videos from industry and academia: Which of the application areas you viewed was most interesting and why?  What skills will you need to get if you want to do this type of work?**

**I loved learning from Natalie Jackson from the** Public Religion Research Institute (PRRI). I thought the idea of being able to get insights from survey data was interesting, and also how she said most of the work was done before the results came in. By creating your R code in such a way, you can quickly clean the data and set it up for easy analytical success. The skills she showed were vast knowledge of the industry and the goal of the project, as well as advanced R skills to perform the analysis.