

Your Project Proposal: Towards Data Heterogeneity and Case Refinement

For the material I first came across on Data.gov regarding emerging engineering technologies, I regrettably was unable to find a useful dataset to use for this project within our short time span. As excited as I was to do some research on this topic, most of the data was research type essays and not csv or flat file types which can be used for SQL type queries. I had to recalibrate my approach within our short window. As such, I spent time going through Data.gov specifically searching for topics associated with csv type files. Doing so revealed a much shorter list for use but could still of interest. I decided to choose date on another topic that was not only relevant to myself but that I was curious to dive further into. This topic is Housing Affordability. As my family only became first time homeowners about 4 years ago, I wanted to see how our age and income data compared to the most recent available set of data. The Housing Affordability Data System (HADS) contains data up to 2013 which honestly is very close to when we ourselves bought our home in 2016. BIDSS is useful as it is applicable in many business and organizational contexts.

I came up with the following questions as items that need human consideration and reflection on based on the answers the data brings insights to.

- Research Question 1: The relationship between an individual's age and whether they rent or own.
- Research Question 2: The relationship between income and if it leads to owning or renting.
- Research Question 3: The frequency of owning compared to the age of a house.

I have begun drafting the BI roadmap for what data and who all might need to be involved for this project scope and impact. I expect I can use either SQL along with python and jupyter files to build an interactive dashboard user to end consumers of this data. Granted I do not continue to be plagued with technical issues and software errors from improper install, I hope to build a very clear dashboard which answers my proposed questions.