Intro to Data Manipulation in R

- Understand how data manipulation fits in the data science workflow and its importance

- Be able to install and load a package into R

- Understand what the tidyverse is and what is its purpose

- Work with the readR package to read in data

- Be able to understand what a data frame is and what rows and columns represent

- Be able to check the column names of a dataset

- Be able to subset a single column using the $ operator

- Be able to subset a single or multiple columns using dplyr

- Be able to check the head and tail of the data

- Be able to check distinct values from a categorical column using dplyr

- Be able to check simple summary statistics on columns using dplyr

    - Mean

    - Median

    - Maximum

    - Minimum

- Be able to investigate the correlation coefficient between columns

- Be able to rename columns with dplyr

- Be able to arrange columns in ascending or descending order with dplyr

- Understand what the dplyr pipe operator is and why it is important

- Be able to do simple math with the dplyr pipe operator

- Be comfortable with chaining dplyr verbs together

- Be comfortable with the select, arrange, rename, distinct, and summarise verbs from dplyr and be able to manipulate data with the pipe operator