<p style="text-align:center">Gender Equity Analysis Based on Kaggle – 2022 survey</p>
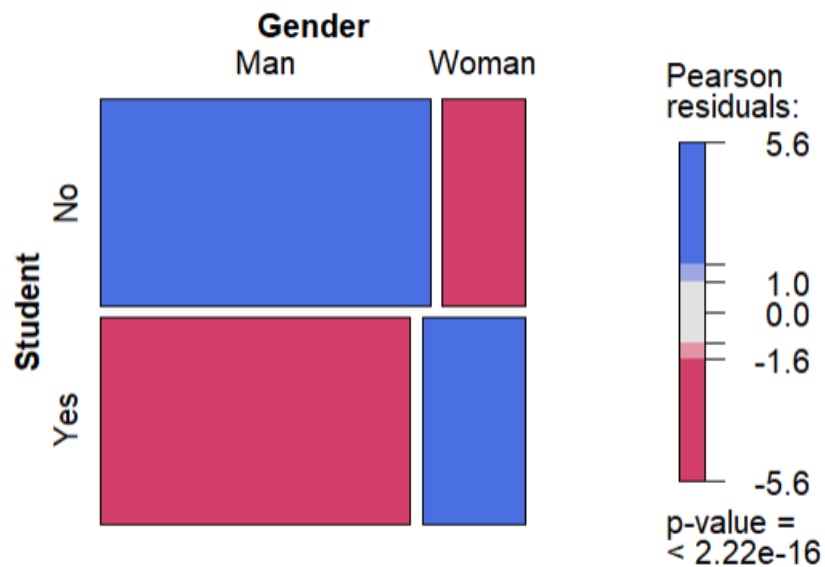
Objective:

Understanding the gender inequity in Data science related domain work.
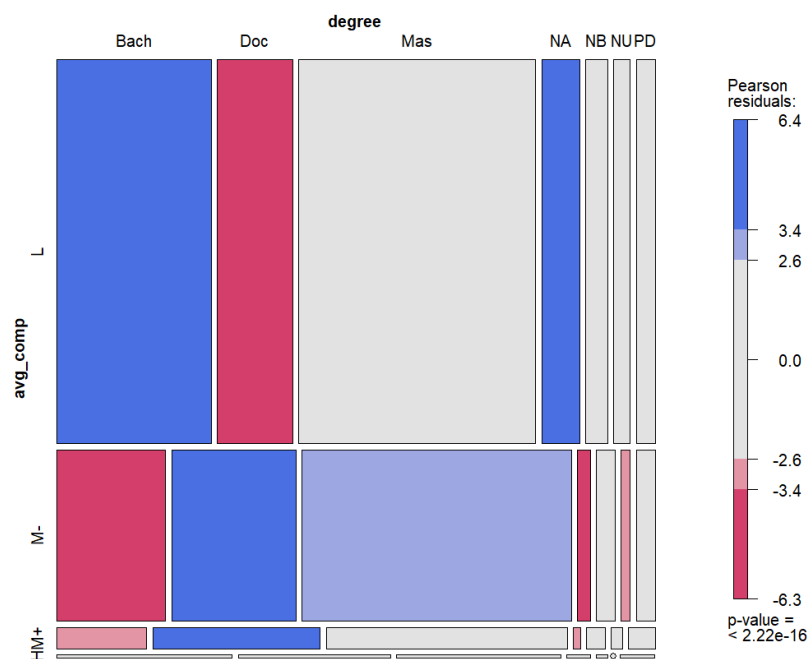
Dataset:

Analysis done based on the below variables alone in the survey,

Age, Gender, Country, Student, Degree, Programming years, Compensation

Models:

We could see very large amount student is Man and the amount of woman in the student category is very less and there is high correlation between gender and being student.


Here the correlation is slightly less strong. L- Low, M- -below medium, M+ -Above medium, H – High compensation. The size of each box represents the amount in each category. From Low to High

compensation the width of Doc increases shows that relatively a greater number of people have a Doctorate in the High compensation category.
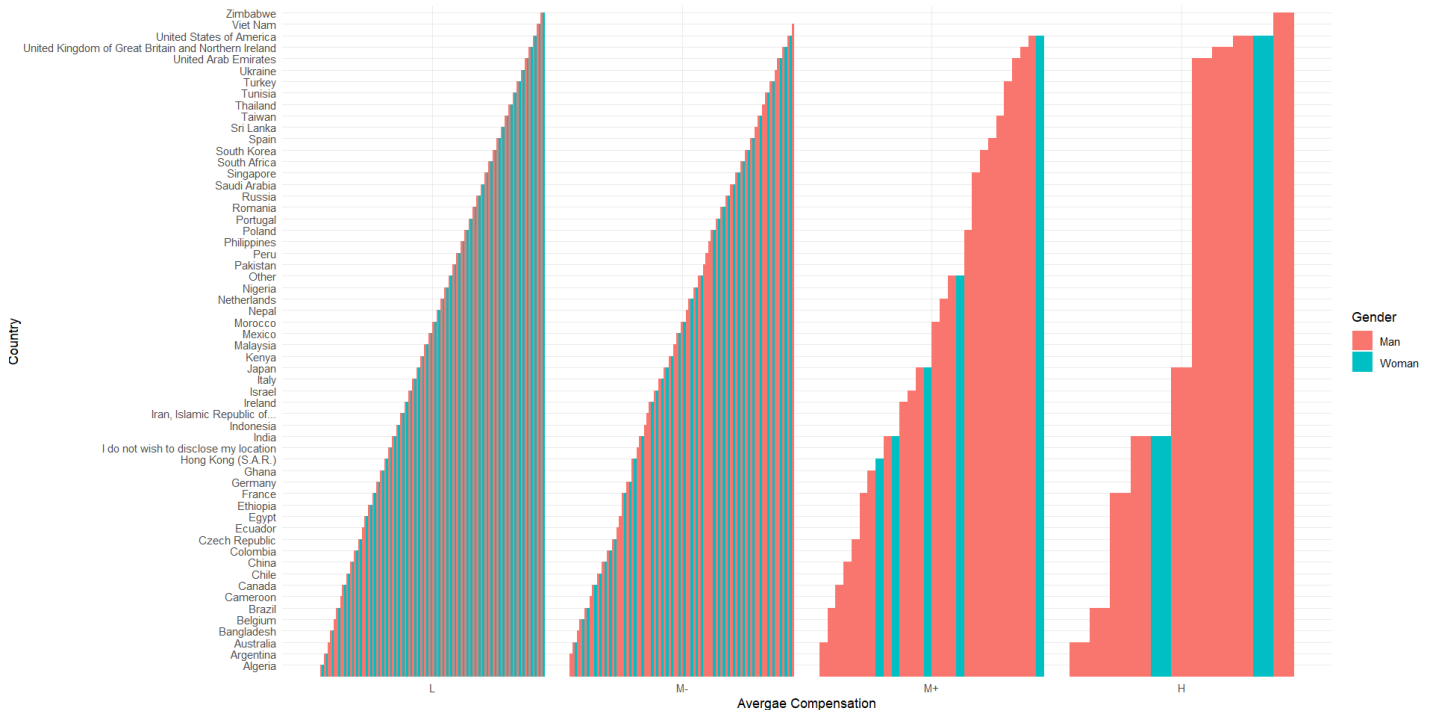
From the above graph, we could infer that the income distribution is different for different countries. And in high and in above medium income group we could see predominantly the Male population in most of the countries while in low income the distribution seems to be invariant of gender in most of countries. Even in developed countries like Germany and France the male population mostly takes the high-income position.
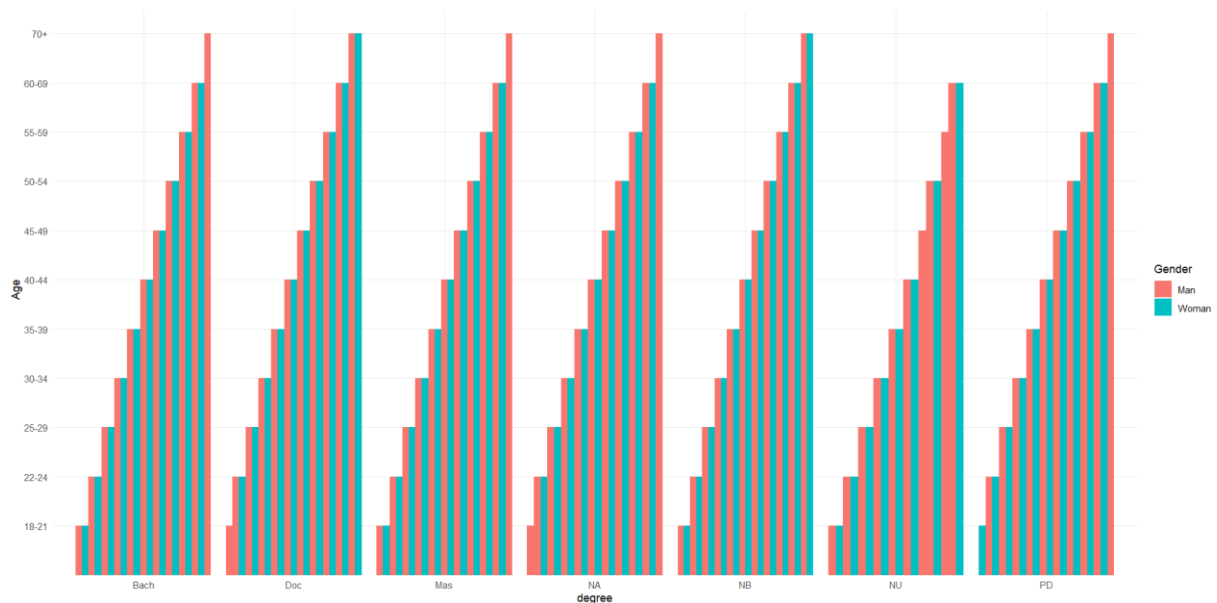
Mostly the bachelors, masters and doctorate degree have equal participation between gender types, which shows that opportunity for education is mostly accessible by female also.
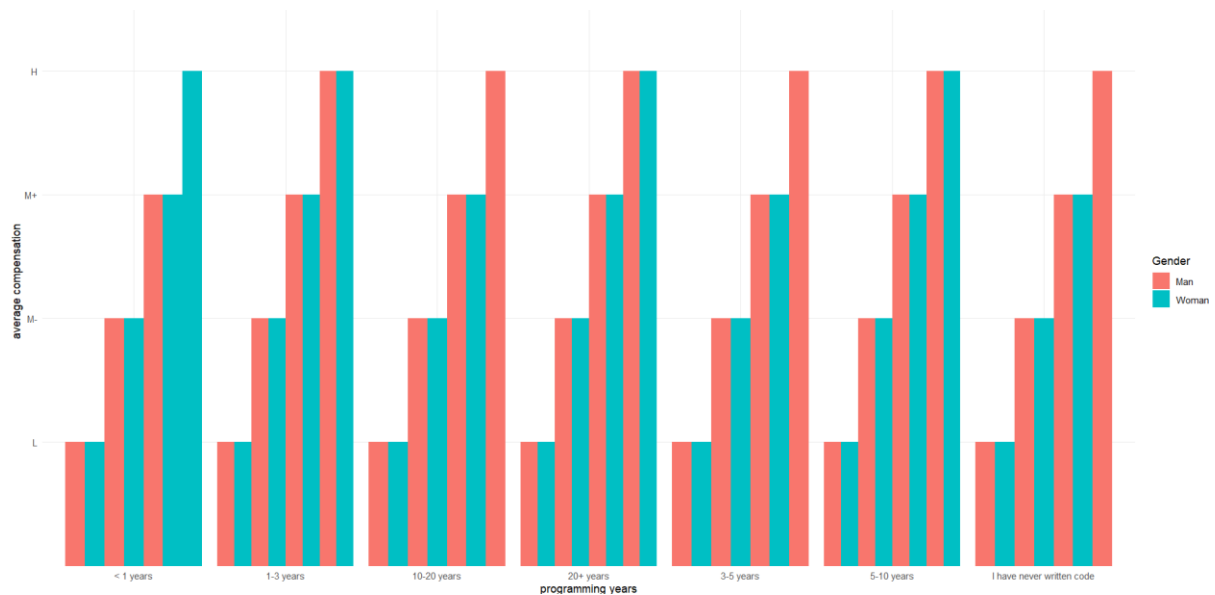
Mostly the distribution is similar between gender except few outliers and it shows that compensation don't depend on programming experience

Conclusion:

From the above analysis we could conclude that the possibility of being student is more for male and also mostly male population takes the high or above medium income position which clearly shows a discrimination towards female, this shows that even in developed countries there is a income disparity between gender and gender equity in-terms of income still need to be attained in many countries.