D7PAM2000 Applied Data Science 1

Assignment 1: Visualisation

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# Data Link

The [Data Link](https://explore-education-statistics.service.gov.uk/find-statistics/graduate-labour-markets/data-guidance) for the dataset that we have chosen is related to the Graduate labour market from the gov.uk link given in the assignment.

<https://explore-education-statistics.service.gov.uk/find-statistics/graduate-labour-markets/data-guidance>

# Github Link

https://github.com/sanzds/7PAM200\_Applied\_Data\_Science

# Line Plot

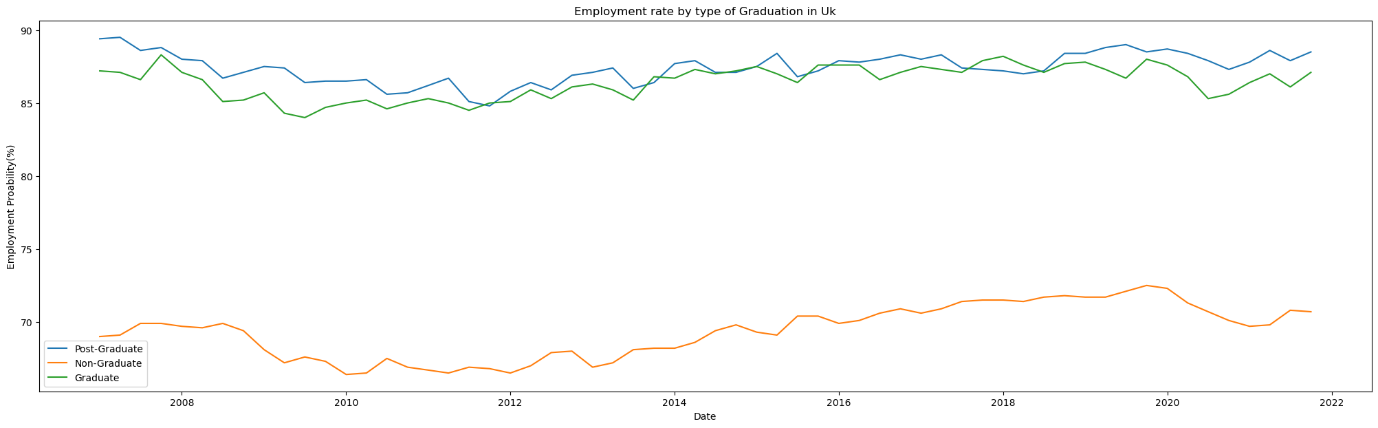


Figure 1 Shows line plot for the Employment rate by type of Graduation in UK

Using the line graph in the figure above, we can see that postgraduates have generally been paid more than undergraduates in the workforce, with the exception of the years 2011–2019, when the two groups have been paid similarly. In addition, we saw a strong association in the trends between those of master's degrees with those of Graduates, but no correlation of trend with Non Graduates. The employment rate for those without college degrees has, however, risen generally throughout the time period.

# Grouped Bar Chart

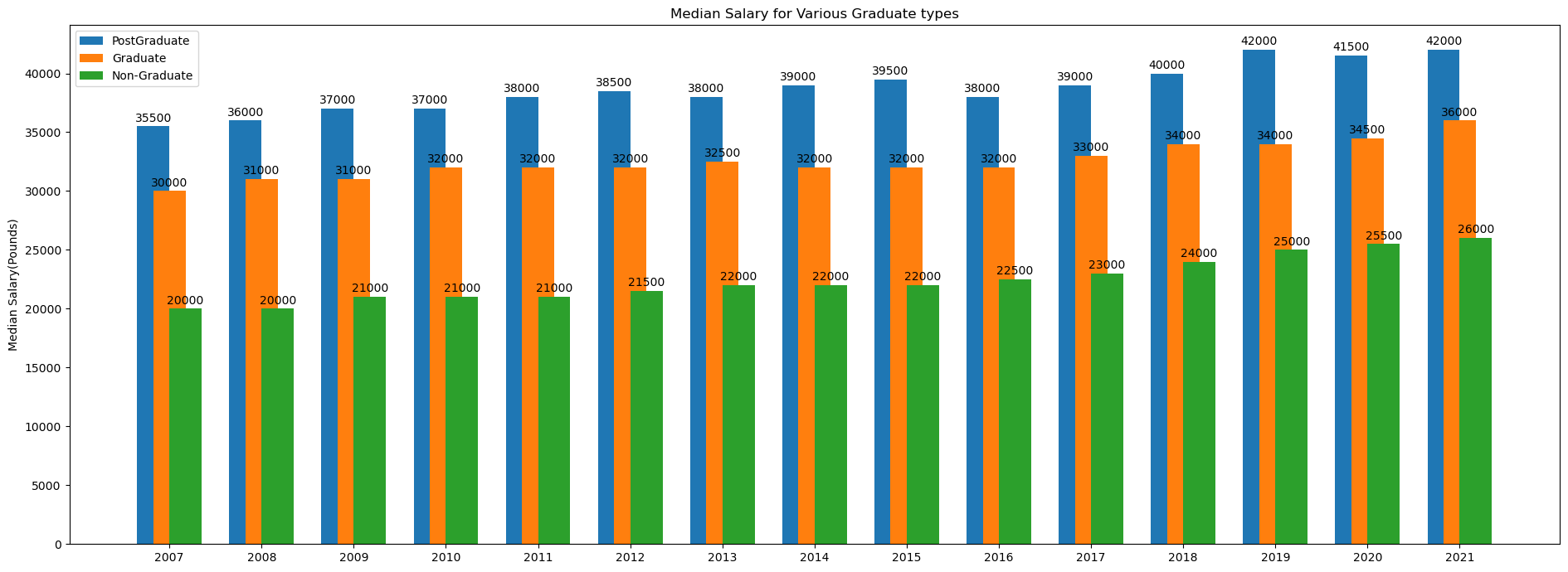


Figure 2 Shows grouped bar chart for Median Salary for Various Graduate types

We could make observations in the above figure, that the most median salary gap between postgraduate and graduates have been increased when compared with graduates.Highest Median salary is recorded in 2021 and 2019 for postgraduates.

# Pie Chart

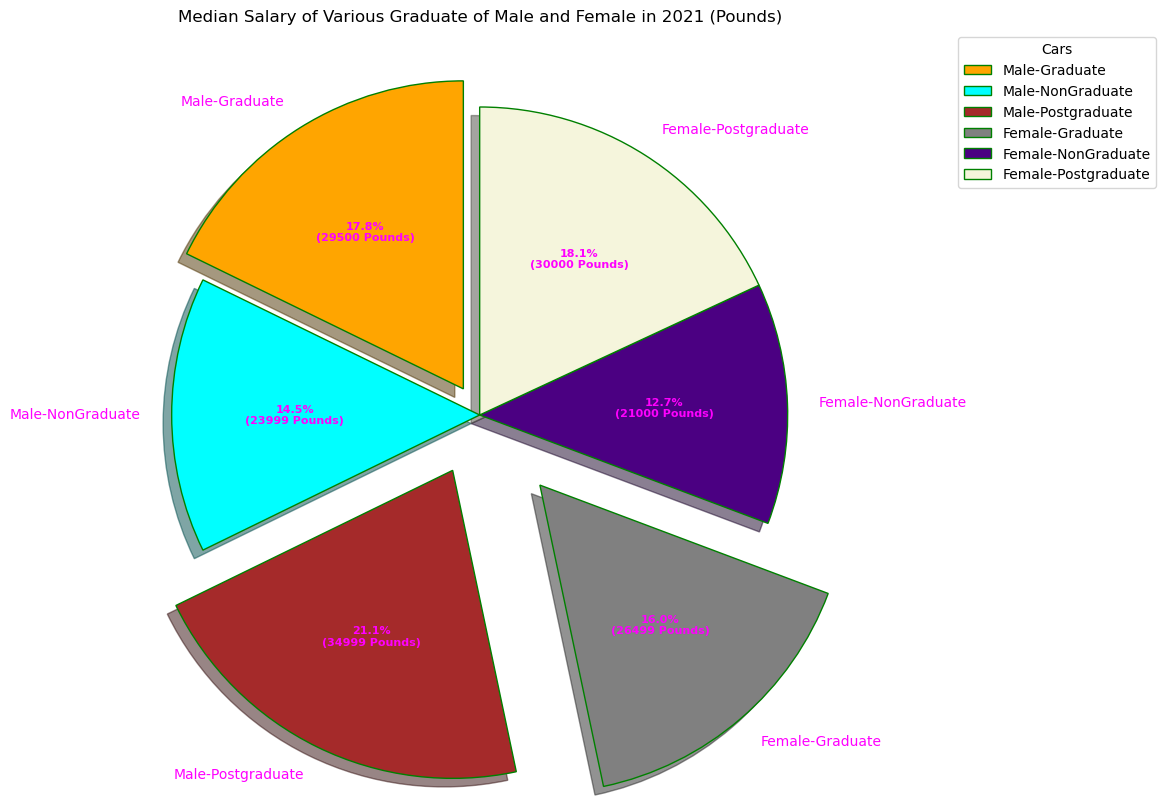


Figure 3 Shows pie chart for median Salary of Various Graduate of Young Male and Female in 2021 (Pounds)

The Figure above is the pie chart that shows the various portions of median salary that young(21-30) people of both genders have received with respect to their qualification in 2021. We could observe that Male-Postgraduate receives the most salary followed by Female Postgraduates. While The lowest is received by the Female Non Graduates.