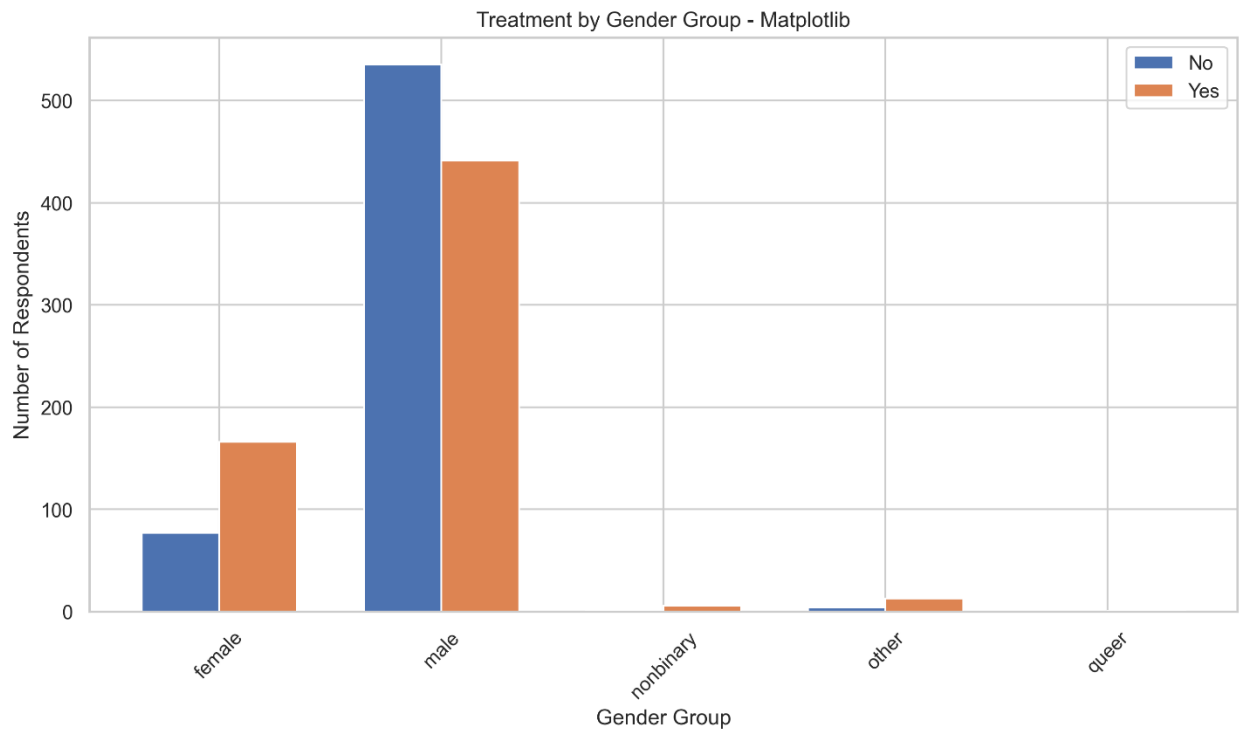
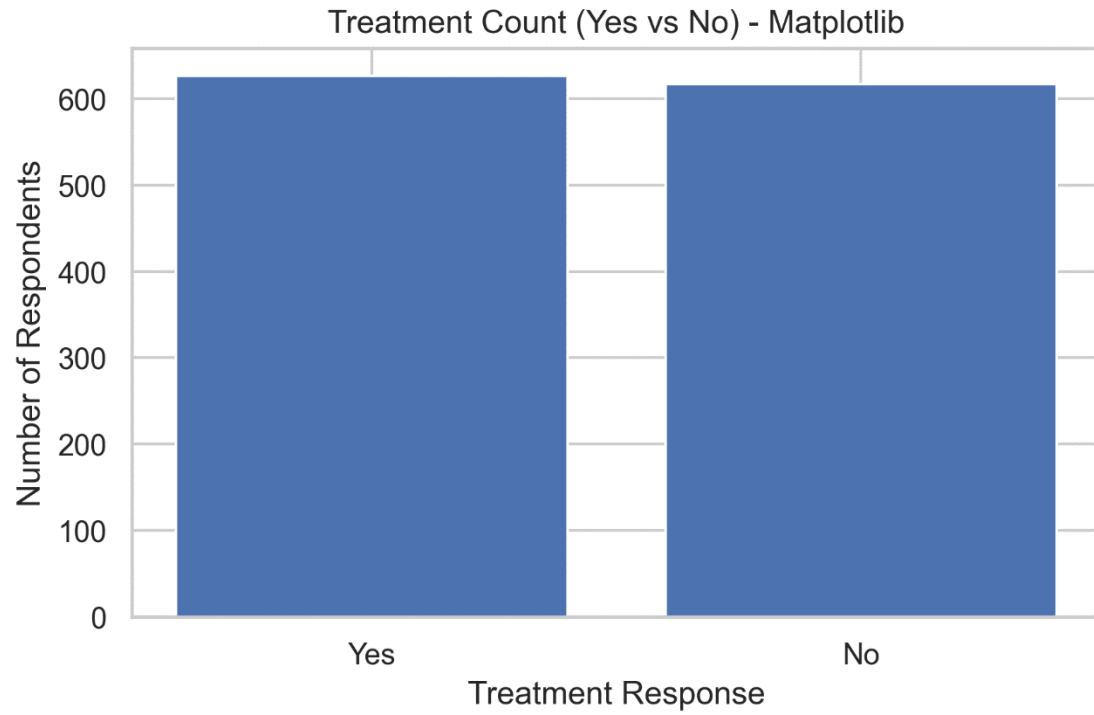


Exploratory Data Analysis using Python (Matplotlib)



1) Overall Treatment Count Matplotlib

This Matplotlib chart replicates the overall treatment distribution using a fully manual plotting approach. Unlike Seaborn's automatic styling, this visualization demonstrates how to construct a bar chart from scratch using only Matplotlib functions. The data again shows a nearly even split between respondents who have and have not sought mental health treatment.

2) Treatment by Gender Group Matplotlib

This grouped bar chart was created manually with Matplotlib by calculating bar positions and widths. It highlights the same trend observed earlier: female respondents show proportionally higher help-seeking behavior than male respondents, while smaller gender groups lean toward 'Yes' despite limited sample size. This visualization illustrates full control of chart construction without the higher-level features of Seaborn.

Summary

Seaborn provides faster, more stylized statistical graphics, while Matplotlib offers more granular control over every aspect of the chart. Including both in this project demonstrates proficiency in multiple Python visualization tools and the ability to choose the appropriate technique depending on the analytical or presentation needs.