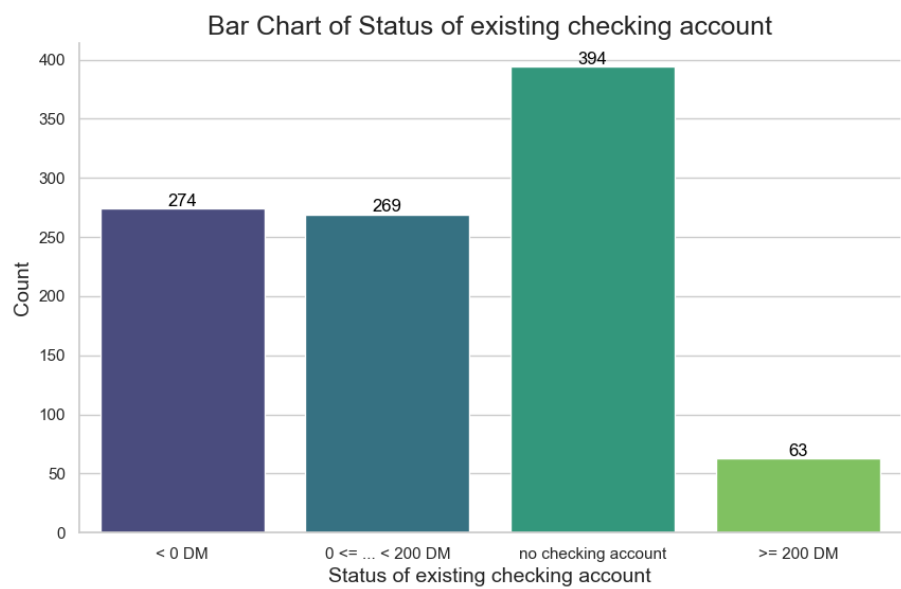
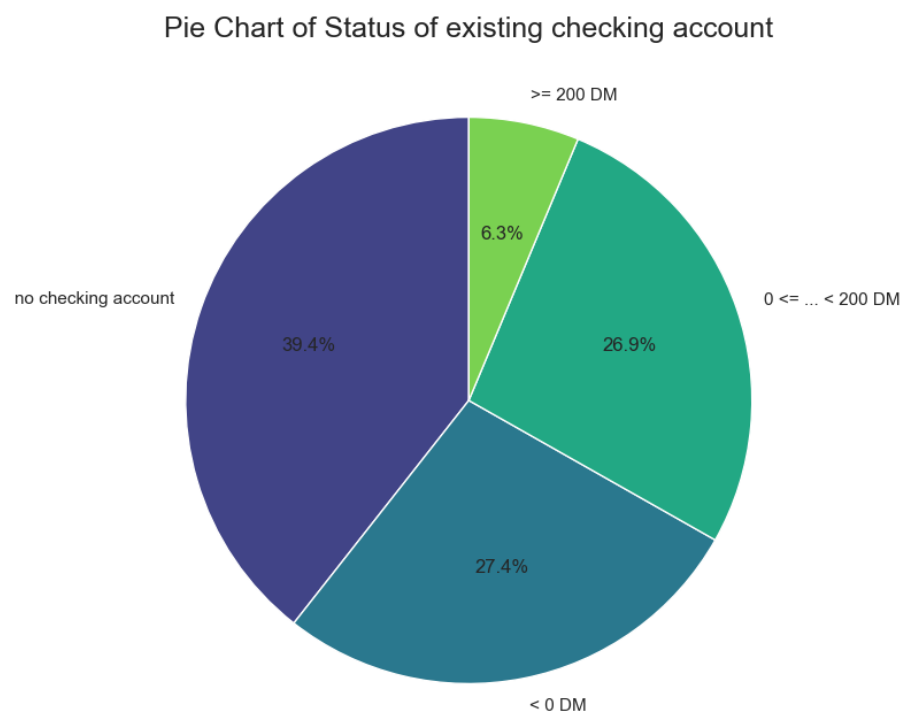


Bias Detection Report

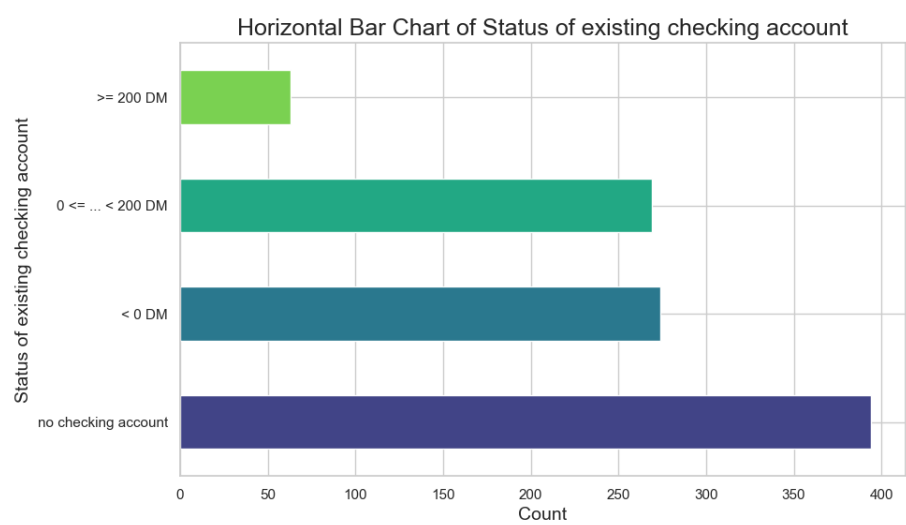
Based on the results from the tools, I can conclude that there is a significant correlation bias between the 'Status of existing checking account' and 'Credit risk (Good/Bad)' features.



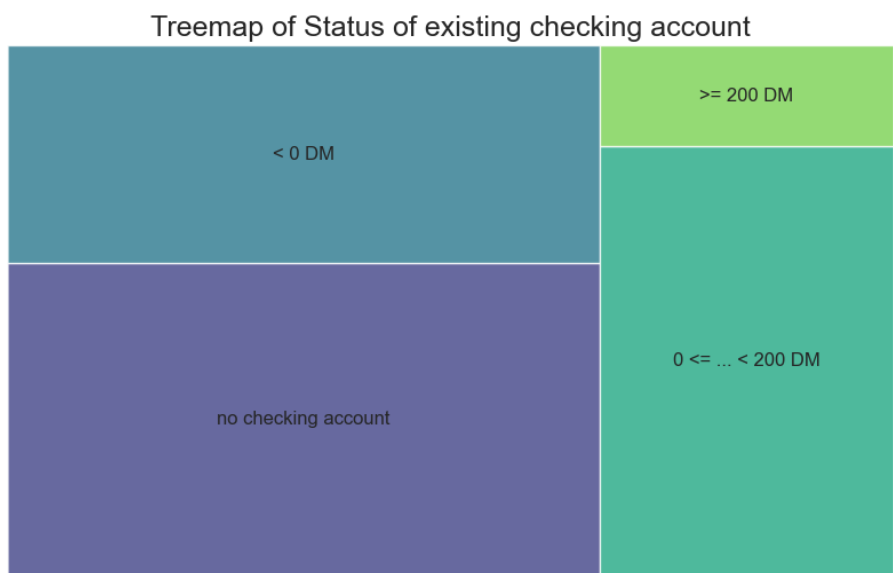
The Shannon entropy and balance metric for the 'Status of existing checking account' feature are 1.802043066356864 and 0.901021533178432, respectively.



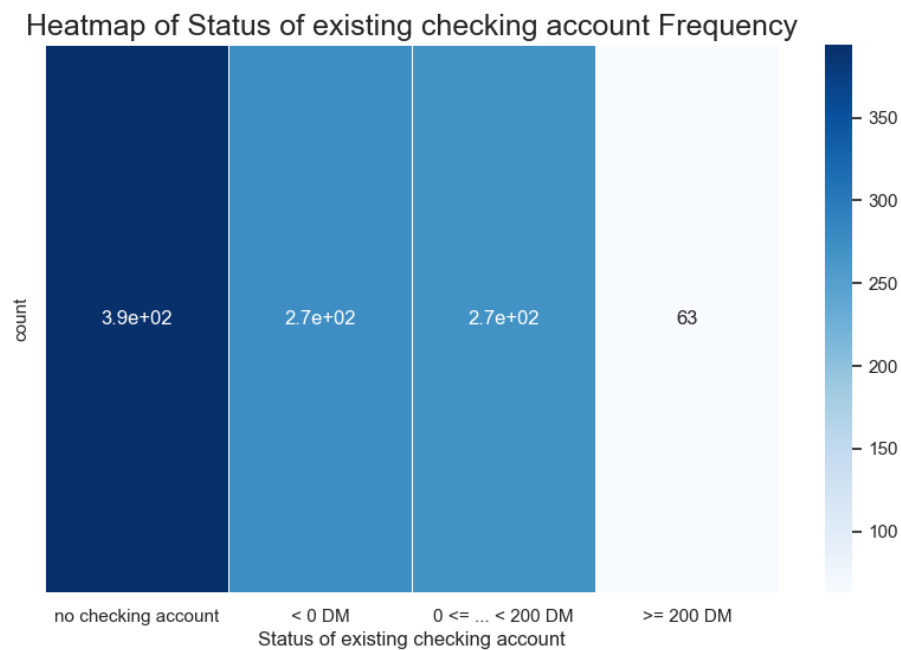
The max/min ratio of categories for the 'Status of existing checking account' feature is 6.253968253968254.



The entropy and normalized entropy for the 'Status of existing checking account' feature are 1.802043066356864 and 0.901021533178432, respectively.



The Gini index and adjusted Gini index for the 'Status of existing checking account' feature are 0.6931146231875225 and 0.9241528309166966, respectively.



The relative risks for each category of the 'Status of existing checking account' feature are:

- no checking account: 1.576

- < 0 DM: 1.096

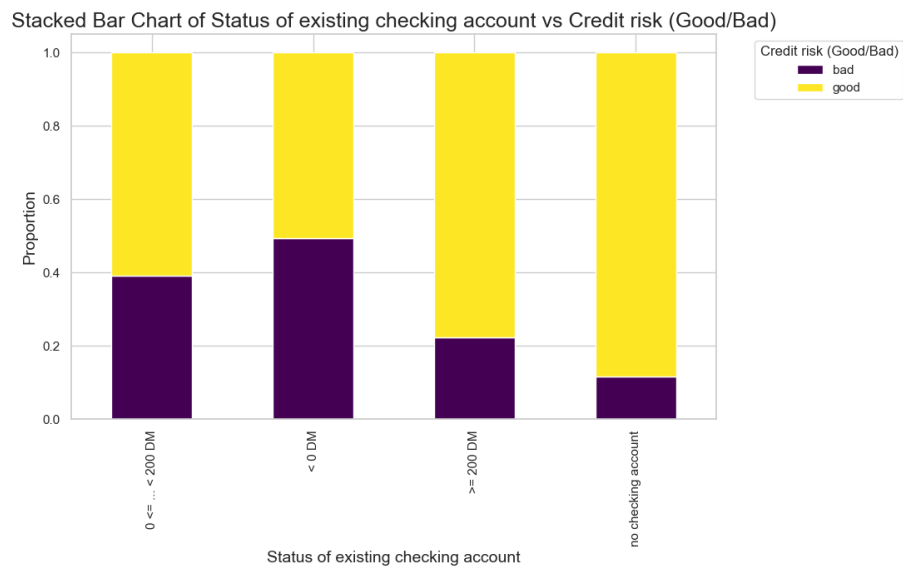
- 0 <=... < 200 DM: 1.076

- >= 200 DM: 0.252

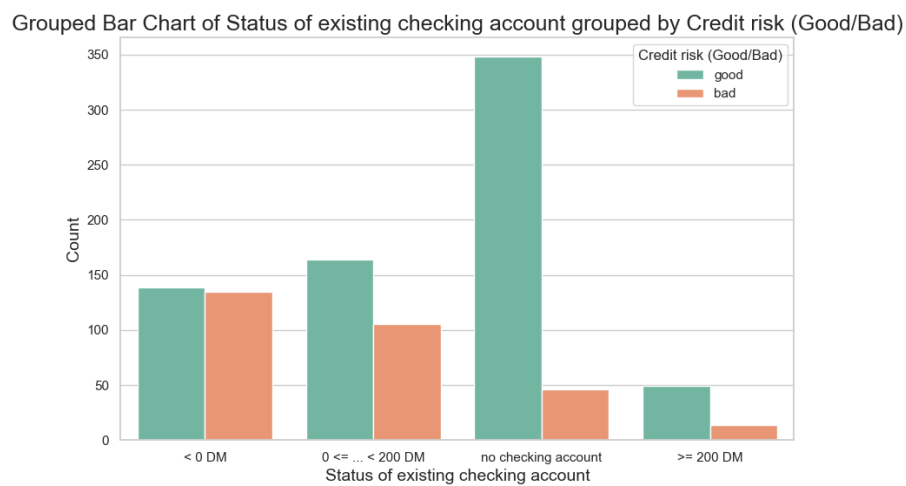
The normalized bias score is 6.253968253968254.

Image not found: generated_files/correlation_heatmap.png

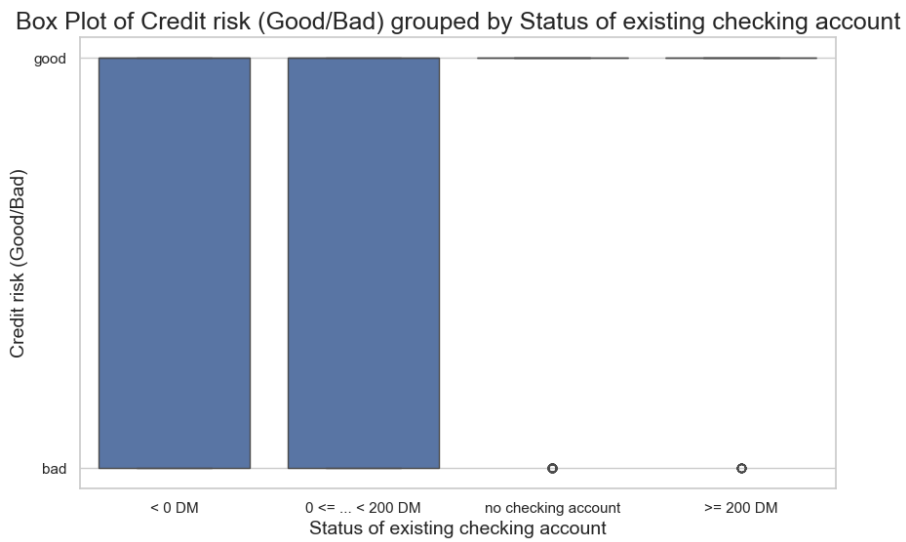
The Cramér's V value for the correlation between the 'Status of existing checking account' and 'Credit risk (Good/Bad)' features is 0.3517398804745711.



The Elift value for the correlation between the 'Status of existing checking account' and 'Credit risk (Good/Bad)' features is 1.6423357664233578.



The statistical parity value for the correlation between the 'Status of existing checking account' and 'Credit risk (Good/Bad)' features is 0.4205064661113932.



The Lipschitz value for the correlation between the 'Status of existing checking account' and 'Credit risk (Good/Bad)' features is 0.4205064661113932.

The total variation distance value for the correlation between the 'Status of existing checking account' and 'Credit risk (Good/Bad)' features is 0.1927007299270073.