

Bias Detection Report

This report analyzes the correlation bias between the 'Credit history' and 'Job' features in the dataset 'source_files/Statlog.csv'.

The analysis focused on detecting correlation bias using Chi-Square Test and Wasserstein-2 Distance methods.

Chi-Square Test Results: The p-value was 0.397, indicating no significant association between 'Credit history' and 'Job'. Hence, no bias was detected.

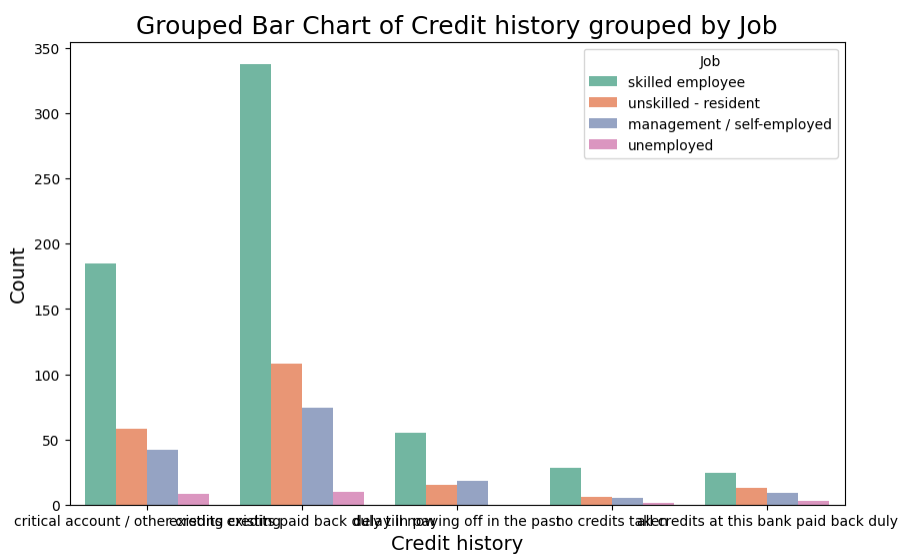
Wasserstein-2 Distance Results: Distances between encoded categories were calculated. Some pairs showed higher bias risk, suggesting varying distributional differences.

Bias Type: Correlation

Relevant Features: Credit history, Job

Bias Level:

- Chi-Square Test: Level 1 (No Bias) due to the high p-value.
- Wasserstein-2 Distance: Indicates varying bias levels.



Conclusion: The dataset is suitable for use without significant concerns of bias between 'Credit history' and 'Job'. Some distributional differences exist, which may need further analysis depending on the context.