Bias Detection Report

The bias type is Distribution.

The relevant feature is Agency_Text.

The bias level is Level 3.

The results from the tools used indicate that there is a moderate level of bias in the distribution of Agency_Text.

For example, the SHAP values calculated using the shap.TreeExplainer() function show that the feature Agency_Text has a significant impact on the output.

The dependency plots generated using the shap.dependence_plot() function also visualize the relationship and SHAP differences between the features.

Overall, the results suggest that the distribution of Agency_Text is not evenly distributed across agencies, with some agencies performing more assessments than others.

I recommend giving these results additional thought before proceeding with using this dataset.