Bias Detection Report

Bias Detection Report for Internet Access and Final Grades

1. Bias Type: Correlation

2. Relevant Features: 'internet' (categorical) and 'G3' (numerical)

3. Bias Level: Moderate bias according to Risk Difference (RD) and minimal bias according to Hilbert-Schmidt Independence Criterion (HSIC).

4. Risk Difference (RD): The RD value is approximately 0.126, indicating that students with internet access are more likely to have high grades.

5. Hilbert-Schmidt Independence Criterion (HSIC): The HSIC value is approximately $3.62\text{e-}07$, indicating a very weak correlation bias.

6. Additional Explanation: The RD method highlights a noticeable difference in high grade probabilities, while the HSIC method shows a weak overall correlation.