## **Bias Detection Report**

Bias Detection Report: Analysis of Internet Access and Final Grades Bias Type: Correlation Relevant Features: Internet Access (categorical), Final Grades (numerical) T-Test and Cohen's d Analysis: - Mean Final Grade with Internet Access: 10.62 - Standard Deviation with Internet Access: 4.57 - Mean Final Grade without Internet Access: 9.41 - Standard Deviation without Internet Access: 4.45 - T-statistic: 1.96 - P-value: 0.050 - Cohen's d: 0.268 - Conclusion: Minimal to Moderate Bias Standardized Difference (SD) Analysis: - SD for 'No Internet': -0.220 - SD for 'Yes Internet': 0.044 - Conclusion: Minimal Bias

Hilbert-Schmidt Independence Criterion (HSIC) Analysis:

- HSIC Value: 3.62e-07

- Conclusion: No Bias

**Overall Conclusion:** 

- The analysis suggests a small to negligible effect of internet access on final grades. While the t-test indicates a borderline significant difference, the effect size is small. The SD and HSIC analyses support the conclusion of minimal bias.