

HYPOTHESIS TESTING SUMMARY

TEST IDENTIFIER Experiment_001_A
SIGNIFICANCE LEVEL (α) 0.05
NULL HYPOTHESIS (H_0) $\mu_1 = \mu_2$,
ALTERNATIVE HYPOTHESIS (H_a) $\mu_1 \neq \mu_2$

Metric	Control Group	Variant Group	Difference / Delta
Sample Size (n)	1,240	1,235	-5
Mean Score	74.2	81.5	+7.3
Std. Deviation	5.4	5.8	0.4

Statistical Test	Test Statistic	P-Value	Conclusion
Two-Sample t-test	3.124	0.0018	Reject Null Hypothesis

NOTES & OBSERVATIONS

The observed p-value is less than the significance level ($0.0018 < 0.05$). There is sufficient evidence to conclude a statistically significant difference between the groups.